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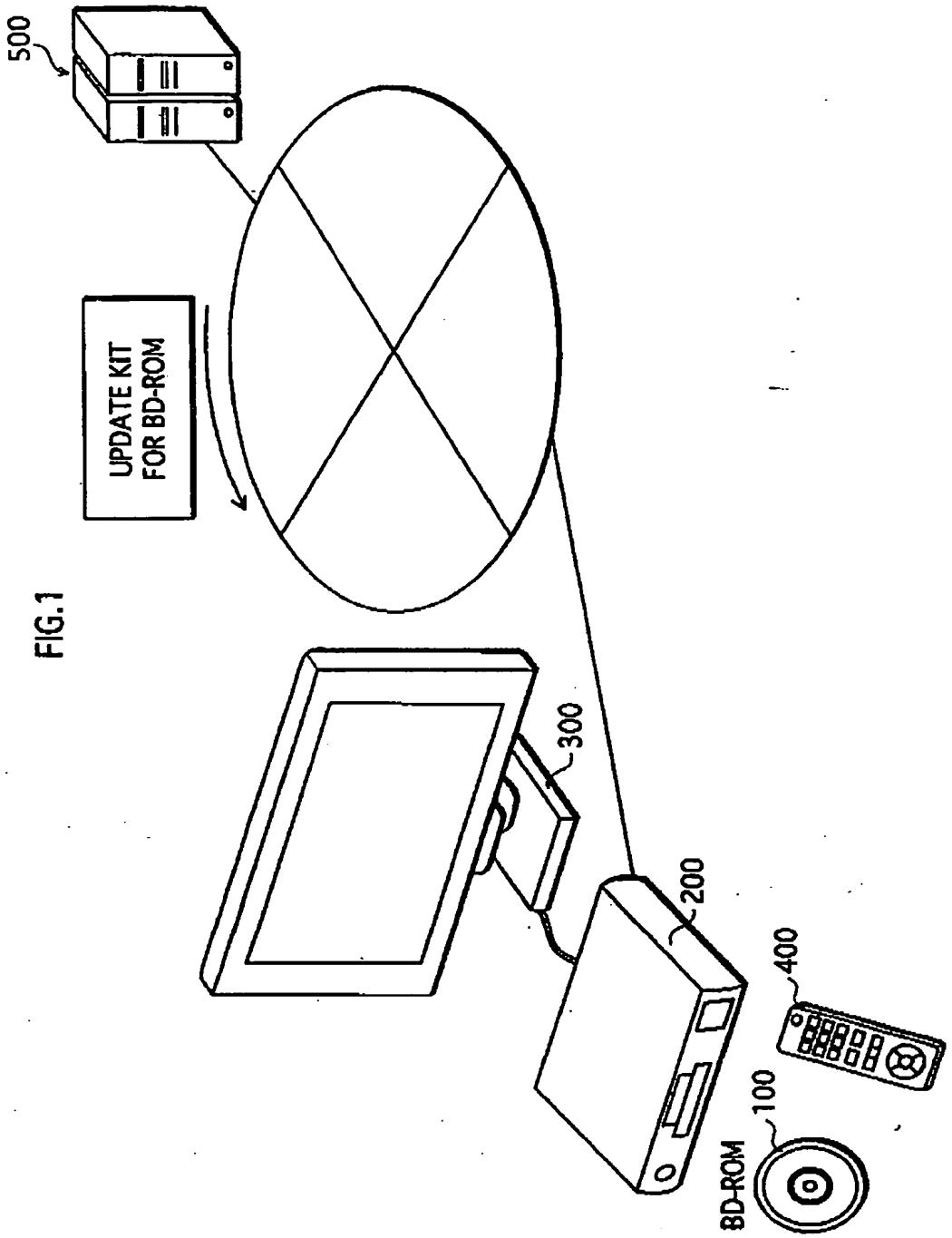

FIG.1

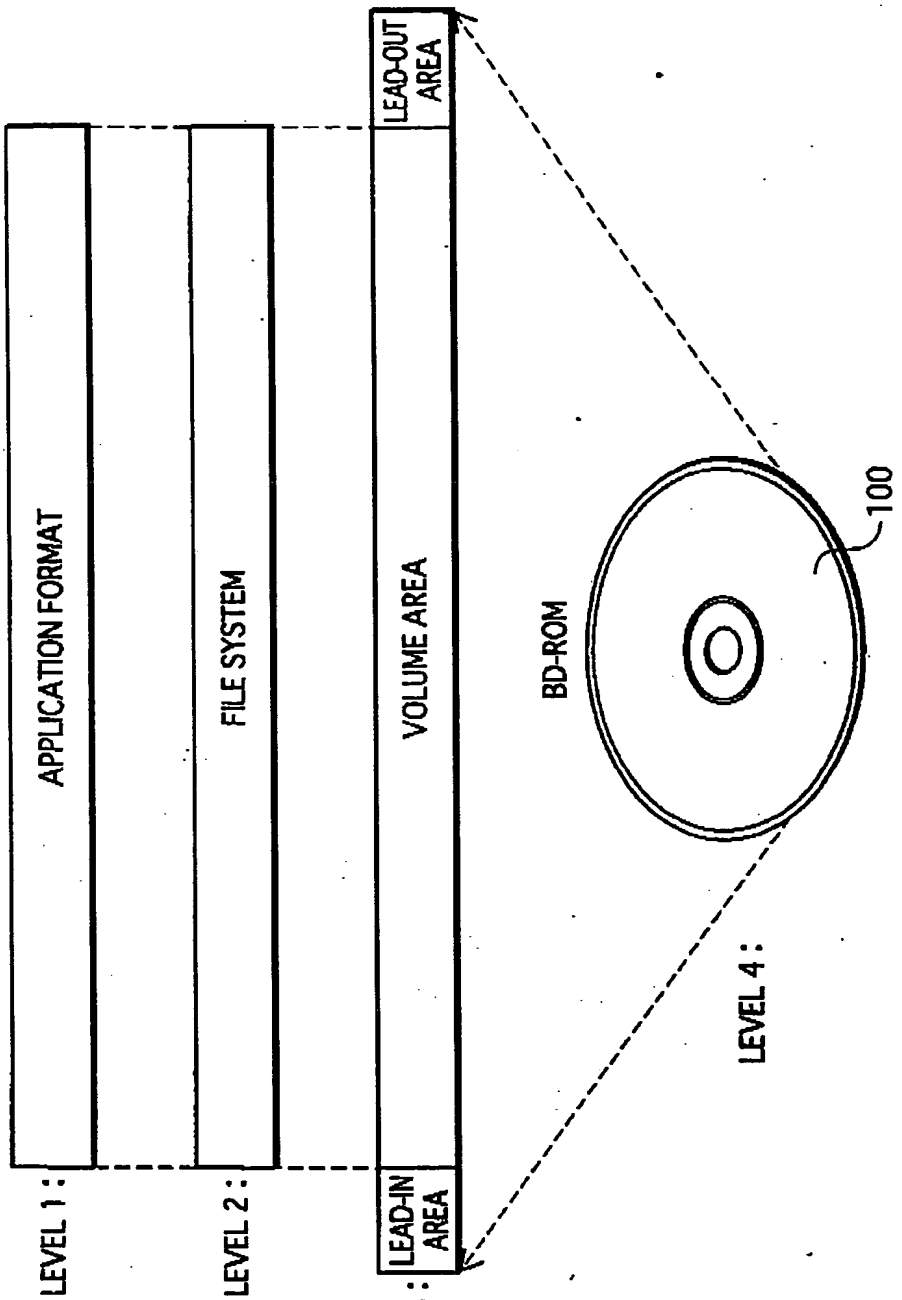
LEAD-OUT AREA
APPLICATION FORMAT
FILE SYSTEM
VOLUME AREA
BD-ROM
100
LEVEL 1 :
LEVEL 2 :
LEAD-IN AREA
LEVEL 3 :
LEVEL 4 :

FIG.2

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FIG.3

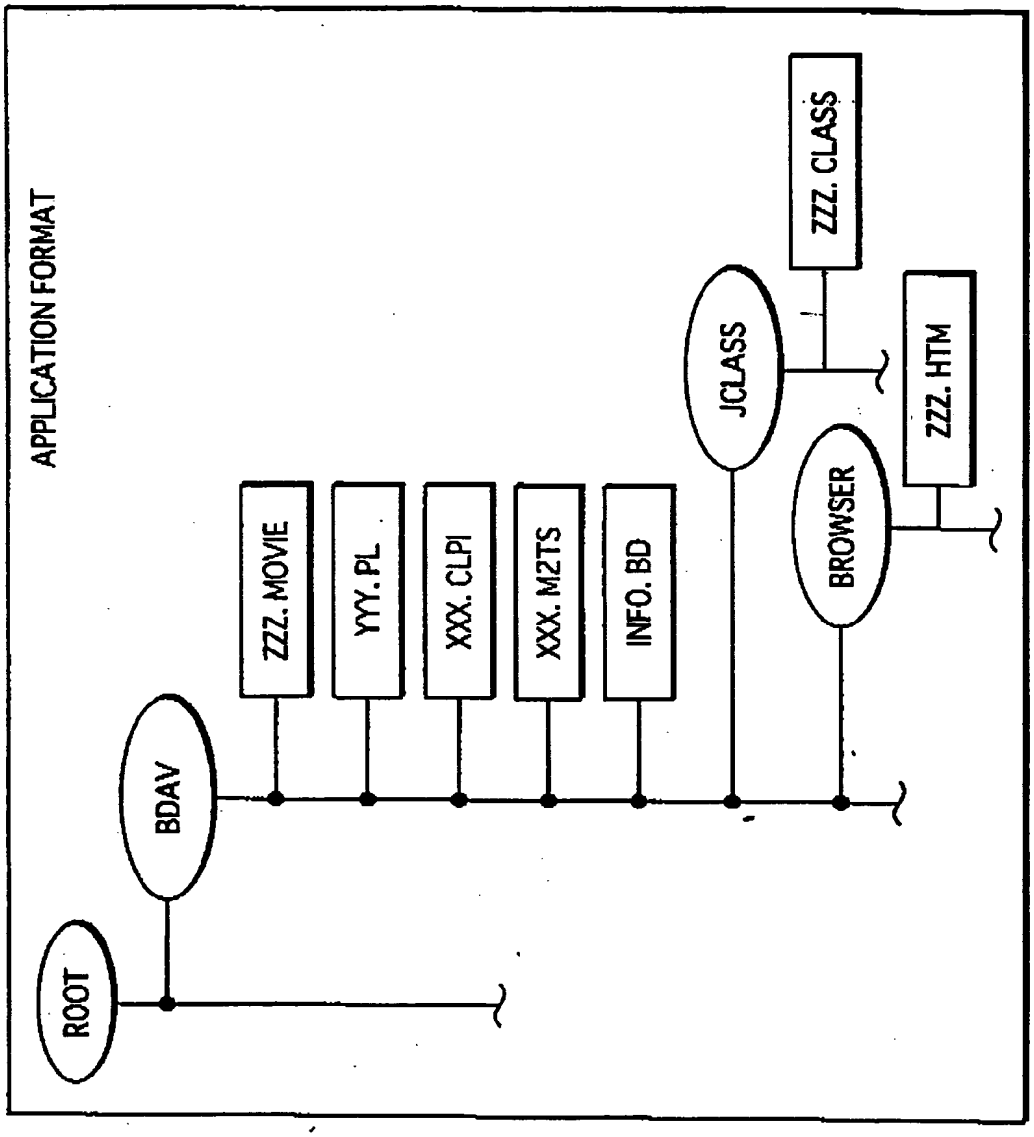

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FIG.4

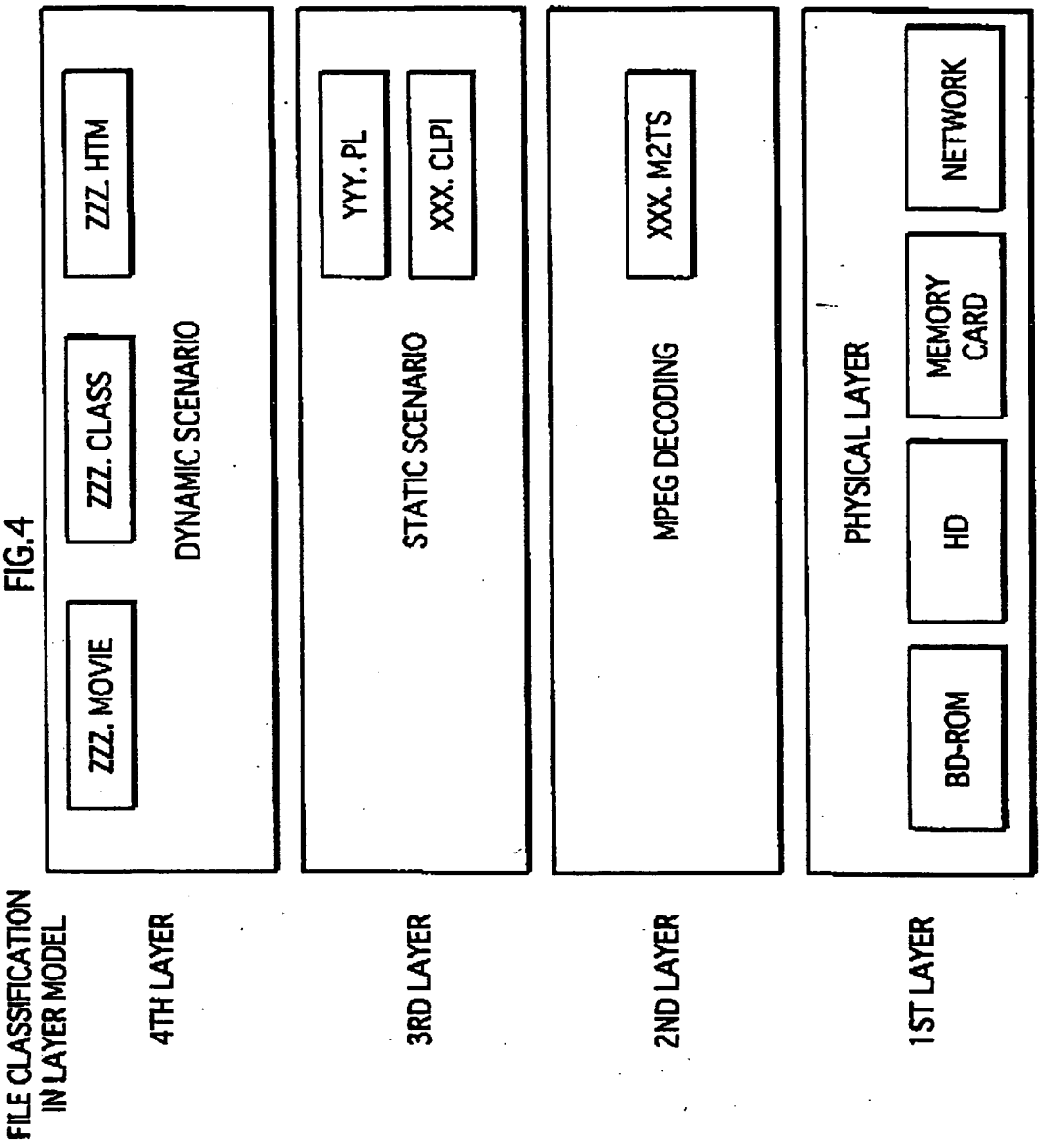

FIG.5

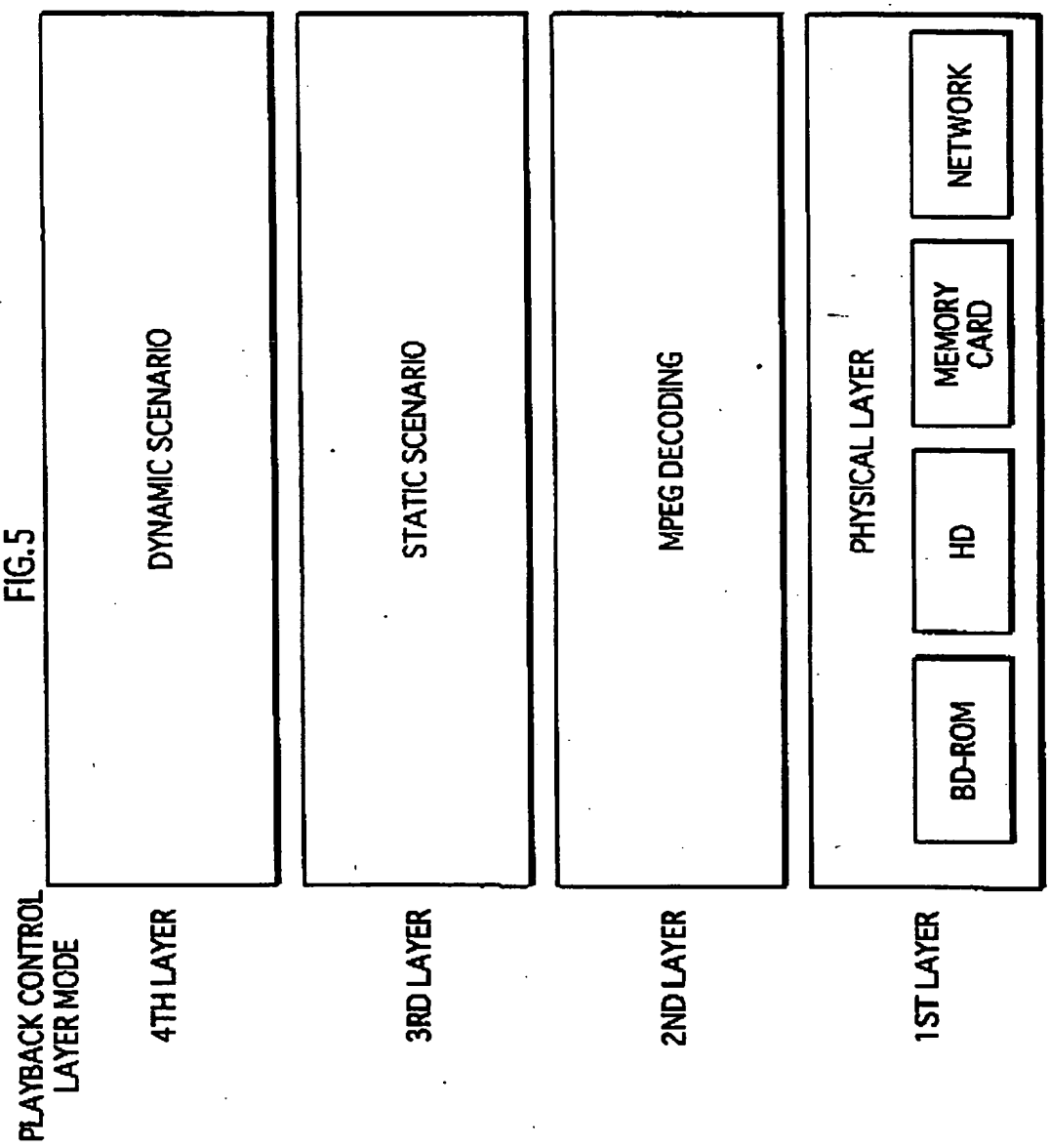
PLAYBACK CONTROL LAYER MODE
4TH LAYER
DYNAMIC SCENARIO
3RD LAYER
STATIC SCENARIO
2ND LAYER
MPEG DECODING
1ST LAYER
PHYSICAL LAYER
BD-ROM
HD
MEMORY CARD
NETWORK

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FIG.6.

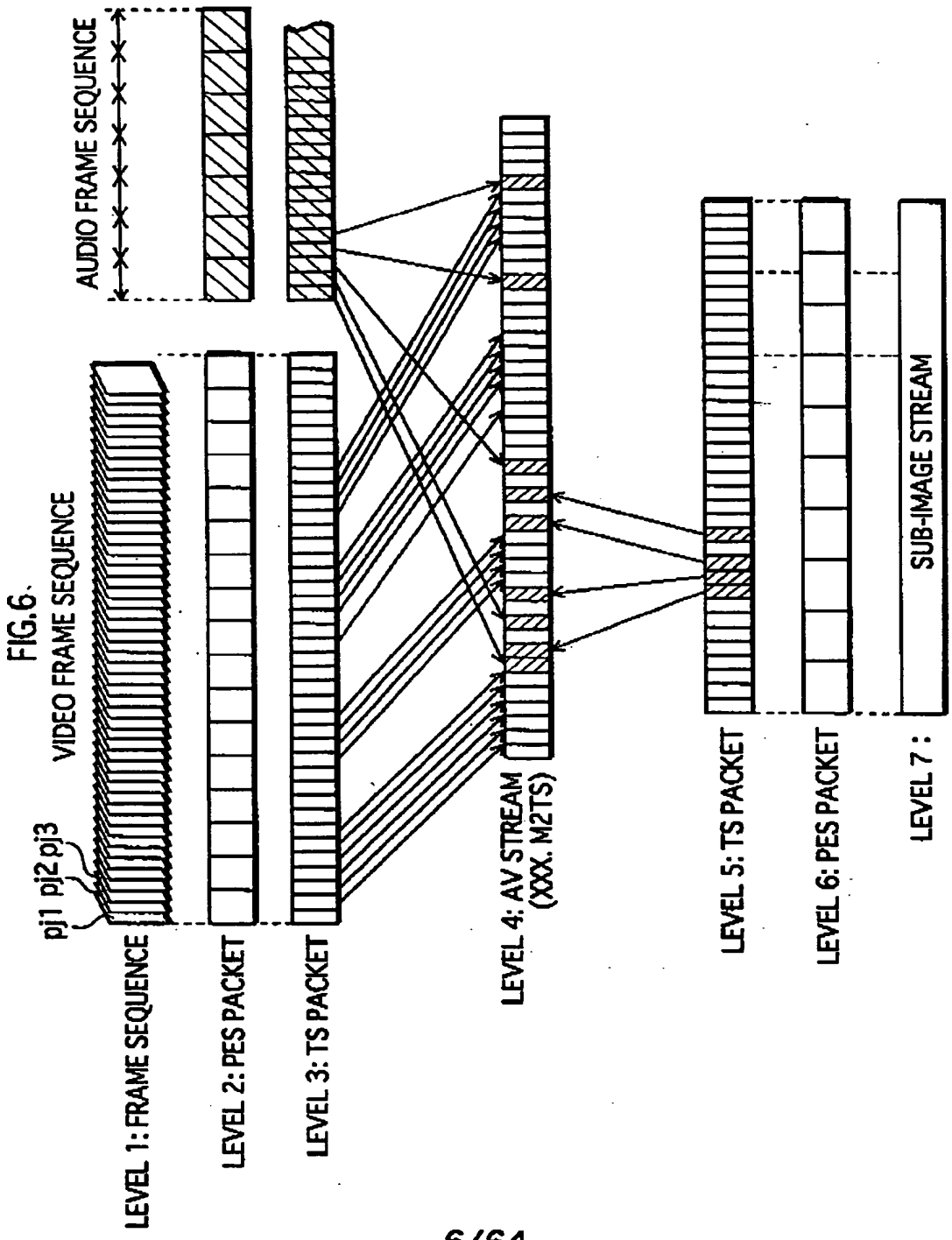
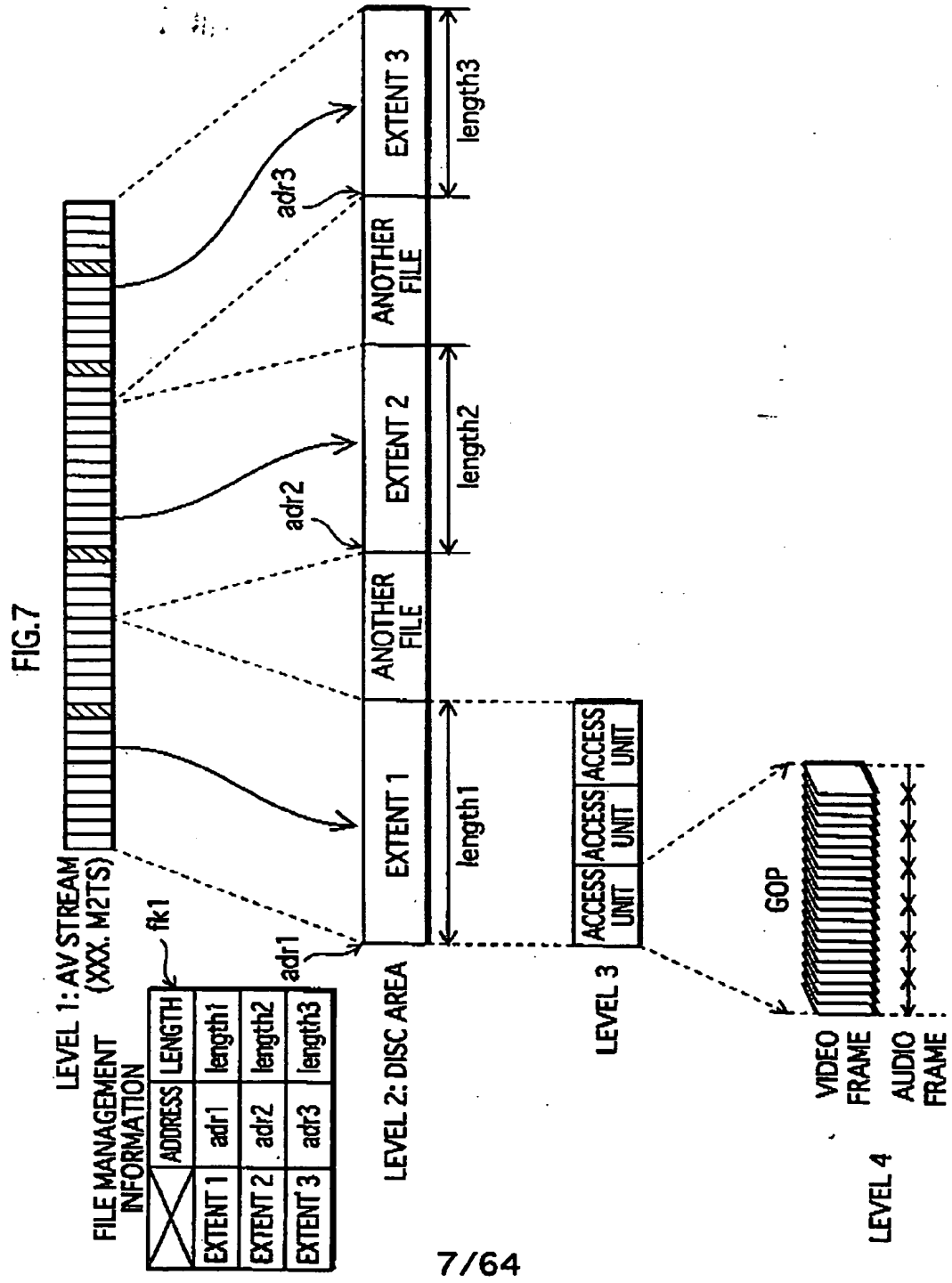


FIG.7


LEVEL 1: AV STREAM (XXX. M2TS)
fk1
FILE MANAGEMENT INFORMATION
LENGTH
ADDRESS
EXTENT 1
adr1
length1
EXTENT 2
adr2
length2
EXTENT 3
adr3
length3
adr1
adr2
adr3
EXTENT 1
ANOTHER FILE
EXTENT 2
ANOTHER FILE
EXTENT 3
length1
length2
length3
LEVEL 2: DISC AREA
ACCESS UNIT
ACCESS UNIT
ACCESS UNIT
LEVEL 3
GOP
VIDEO FRAME
AUDIO FRAME
LEVEL 4

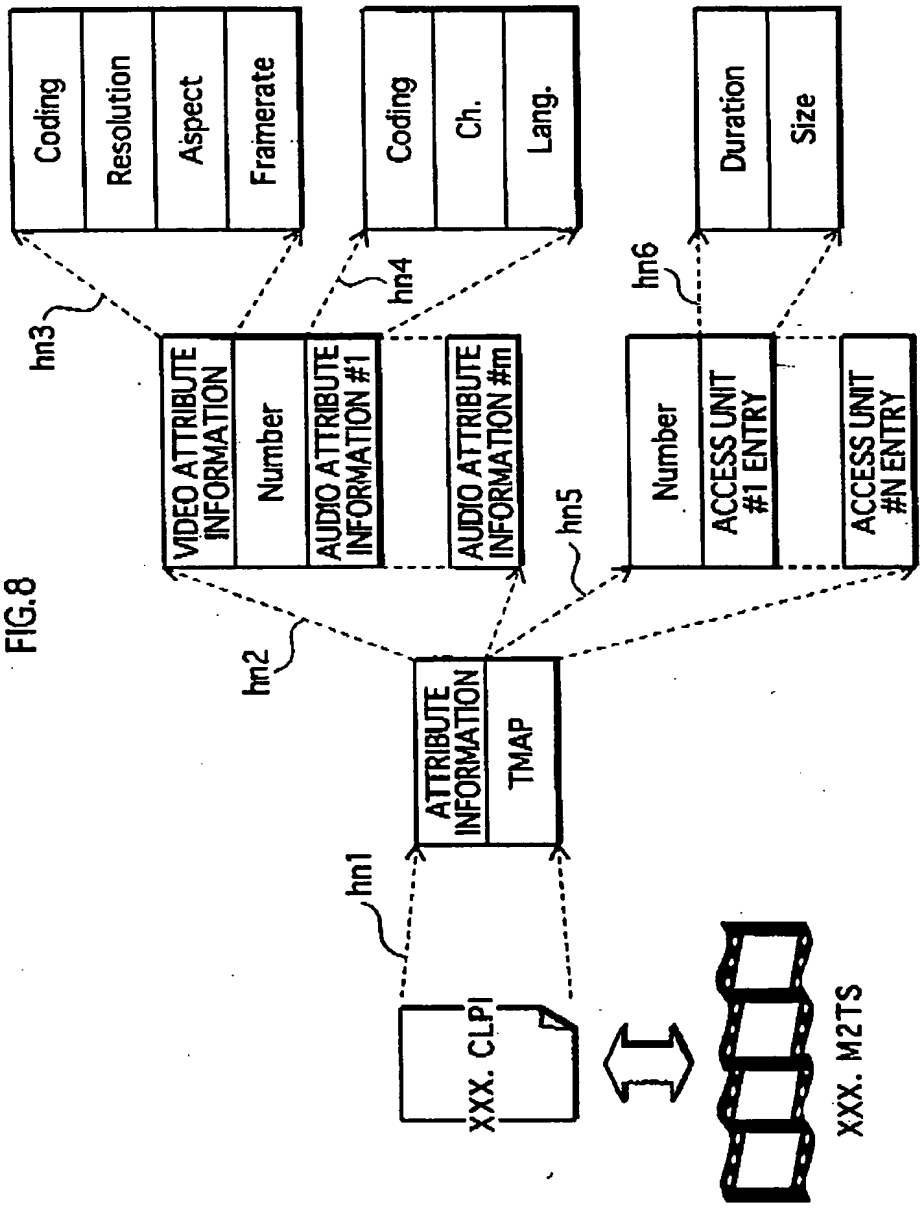

Coding
Resolution
Aspect
Framerate
Coding
Ch.
Lang.
Duration
Size
hn3
hn4
hn6
VIDEO ATTRIBUTE INFORMATION
Number
AUDIO ATTRIBUTE INFORMATION #1
AUDIO ATTRIBUTE INFORMATION #m
Number
ACCESS UNIT #1 ENTRY
ACCESS UNIT #N ENTRY
hn5
hn2
ATTRIBUTE INFORMATION
TMAP
hn1
XXX. CLPI
XXX. M2TS

FIG.8

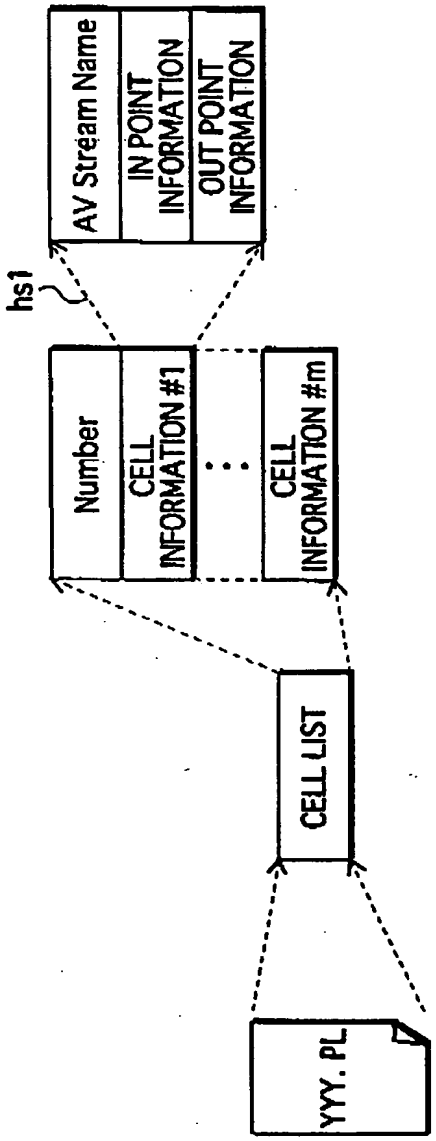

AV Stream Name
IN POINT INFORMATION
OUT POINT INFORMATION
hs1
Number
CELL INFORMATION #1
CELL INFORMATION #m
CELL LIST
YYY. PL

FIG.9

FIG.10

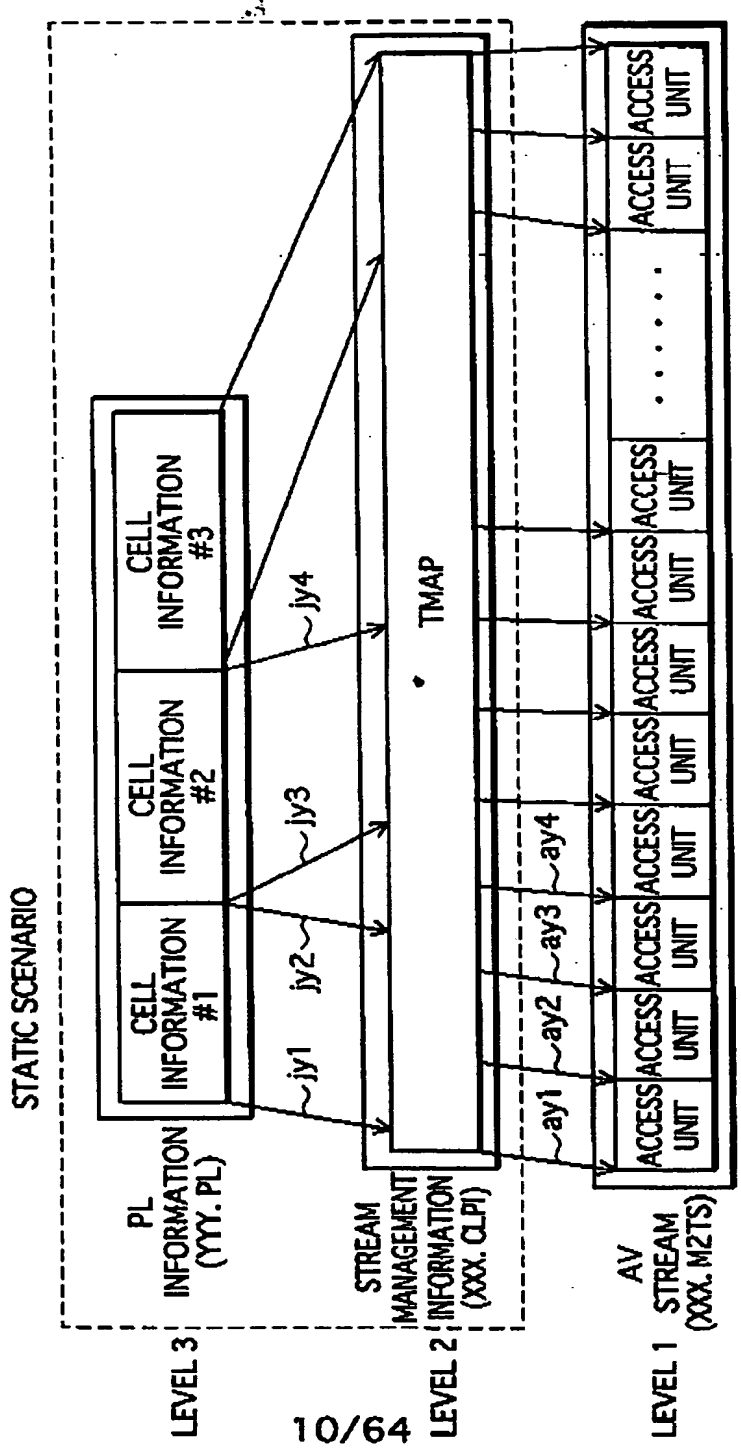

STATIC SCENARIO
CELL INFORMATION #1
CELL INFORMATION #2
CELL INFORMATION #3
jy1
jy2
jy3
jy4
TMAP
ay1
ay2
ay3
ay4
ACCESS UNIT
PL INFORMATION (YYY. PL)
STREAM MANAGEMENT INFORMATION (XXX. CLPI)
AV STREAM (XXX. M2TS)
LEVEL 3
LEVEL 2
LEVEL 1

FIG.11

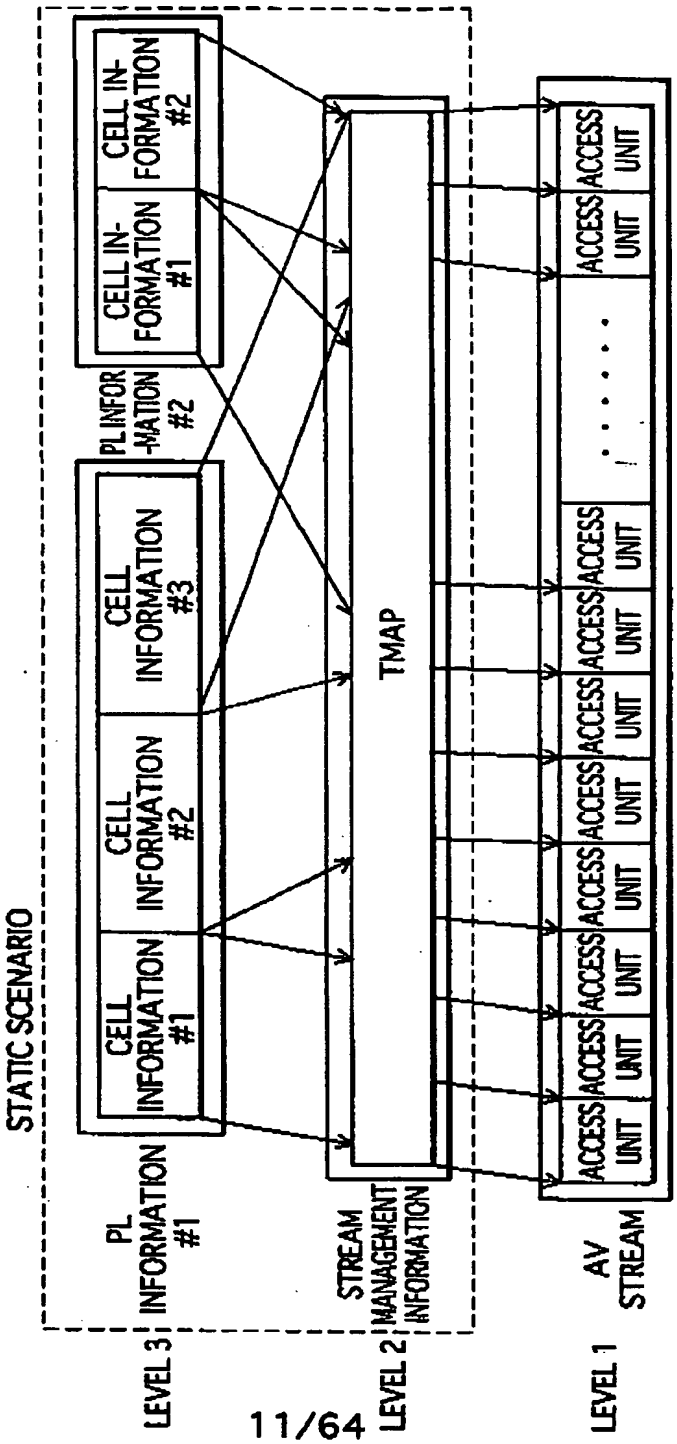

STATIC SCENARIO
PL INFORMATION #1
CELL INFORMATION #1
CELL INFORMATION #2
CELL INFORMATION #3
PL INFORMATION #2
CELL INFORMATION #1
CELL INFORMATION #2
STREAM MANAGEMENT INFORMATION
TMAP
AV STREAM
ACCESS UNIT
LEVEL 3
LEVEL 2
LEVEL 1

FIG.12

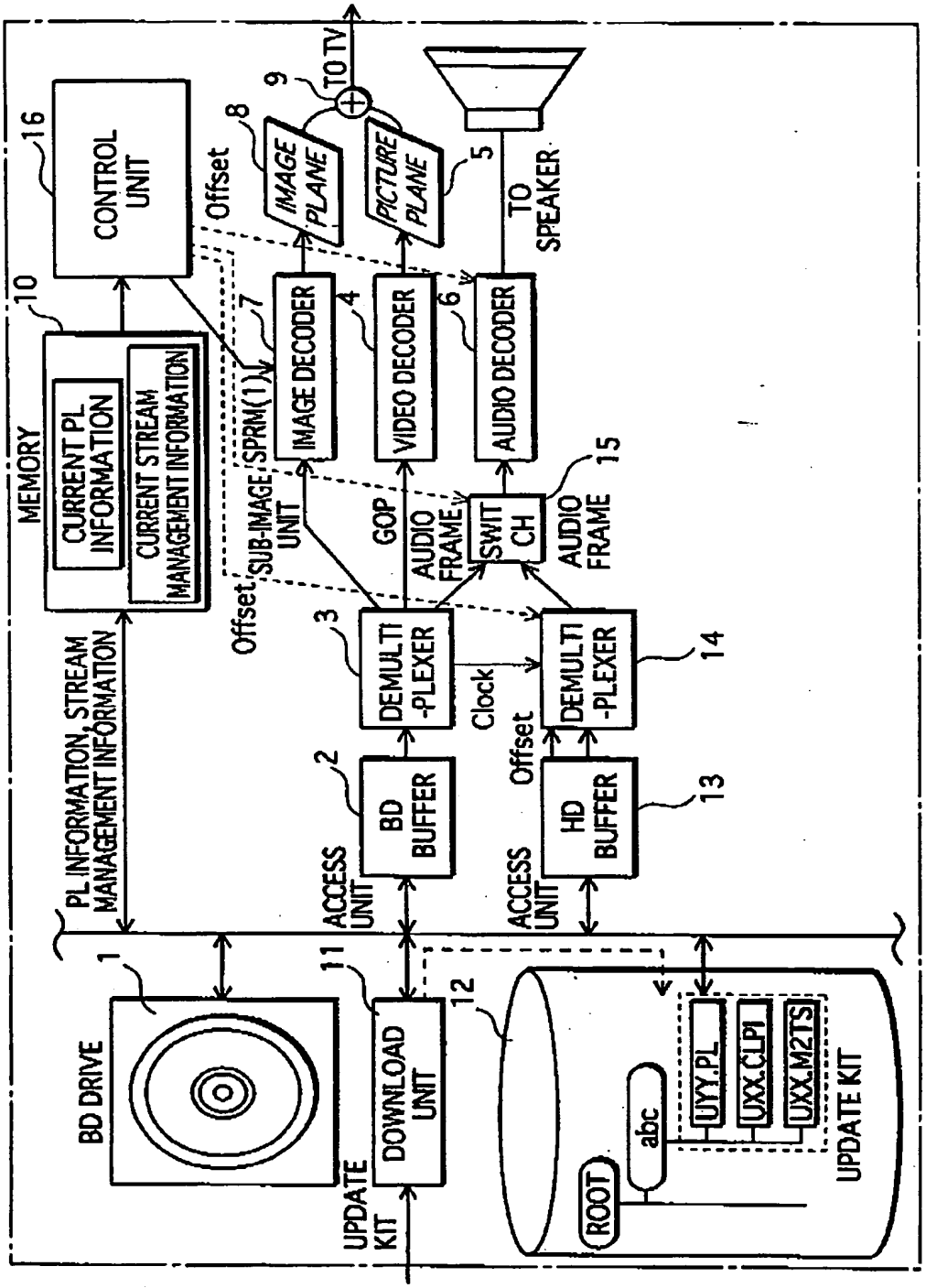

BD DRIVE
1
PL INFORMATION, STREAM MANAGEMENT INFORMATION
MEMORY
CURRENT PL INFORMATION
CURRENT STREAM MANAGEMENT INFORMATION
10
CONTROL UNIT
16
ACCESS UNIT
BD BUFFER
2
DEMULTI -PLEXER
3
IMAGE DECODER
7
VIDEO DECODER
4
AUDIO DECODER
6
IMAGE PLANE
8
PICTURE PLANE
5
TO TV
9
TO SPEAKER
Offset
SPRM(1)
SUB-IMAGE UNIT
GOP
AUDIO FRAME
SWIT CH
15
Clock
ACCESS UNIT
HD BUFFER
13
DEMULTI -PLEXER
14
11
DOWNLOAD UNIT
12
UPDATE KIT
ROOT
abc
UIYY.PL
UXX.CLPI
UXX.M2TS
UPDATE KIT

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FIG.13

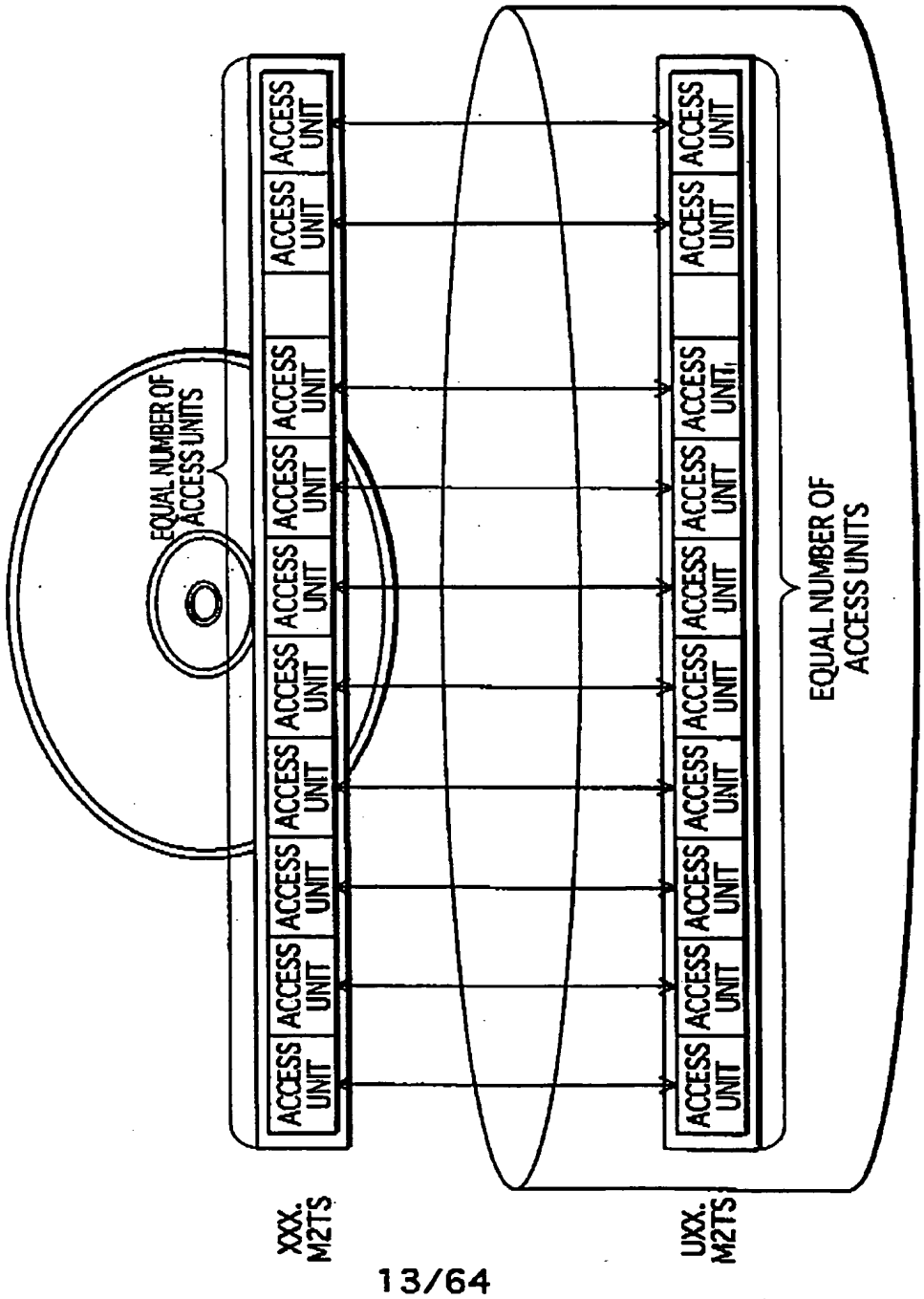


FIG.14

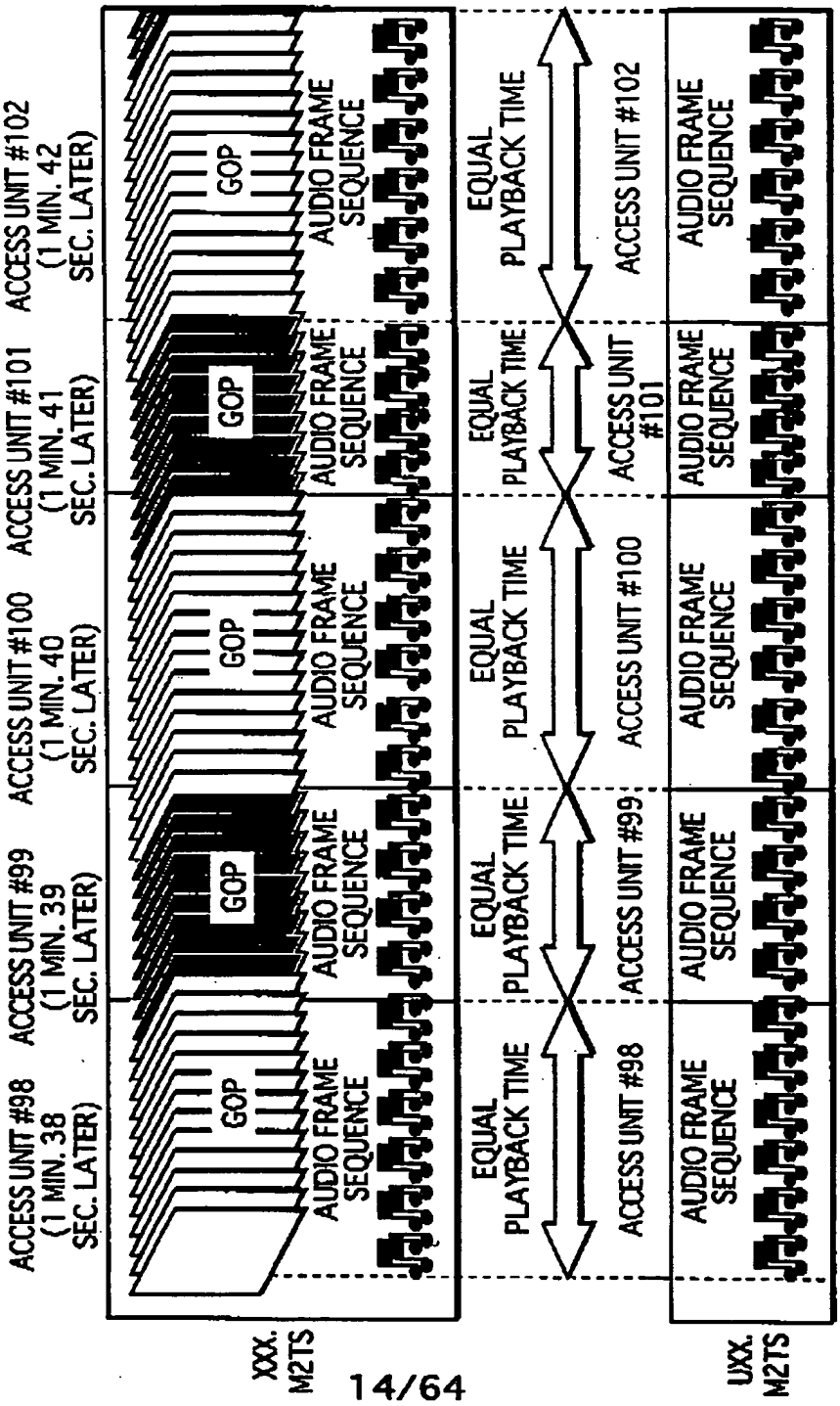

ACCESS UNIT #98 (1 MIN. 38 SEC. LATER)
ACCESS UNIT #99 (1 MIN. 39 SEC. LATER)
ACCESS UNIT #100 (1 MIN. 40 SEC. LATER)
ACCESS UNIT #101 (1 MIN. 41 SEC. LATER)
ACCESS UNIT #102 (1 MIN. 42 SEC. LATER)
GOP
AUDIO FRAME SEQUENCE
EQUAL PLAYBACK TIME
ACCESS UNIT #98
ACCESS UNIT #99
ACCESS UNIT #100
ACCESS UNIT #101
ACCESS UNIT #102
XXX. M2TS
UXX. M2TS

FIG.15

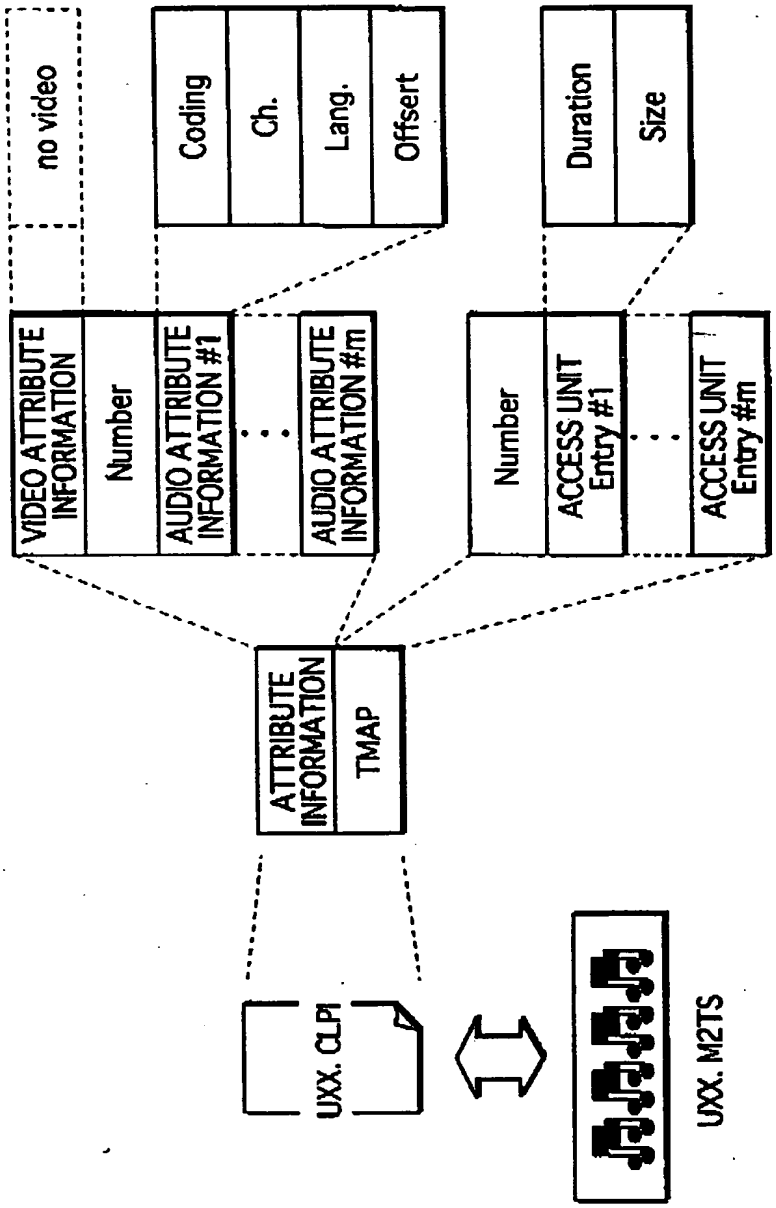
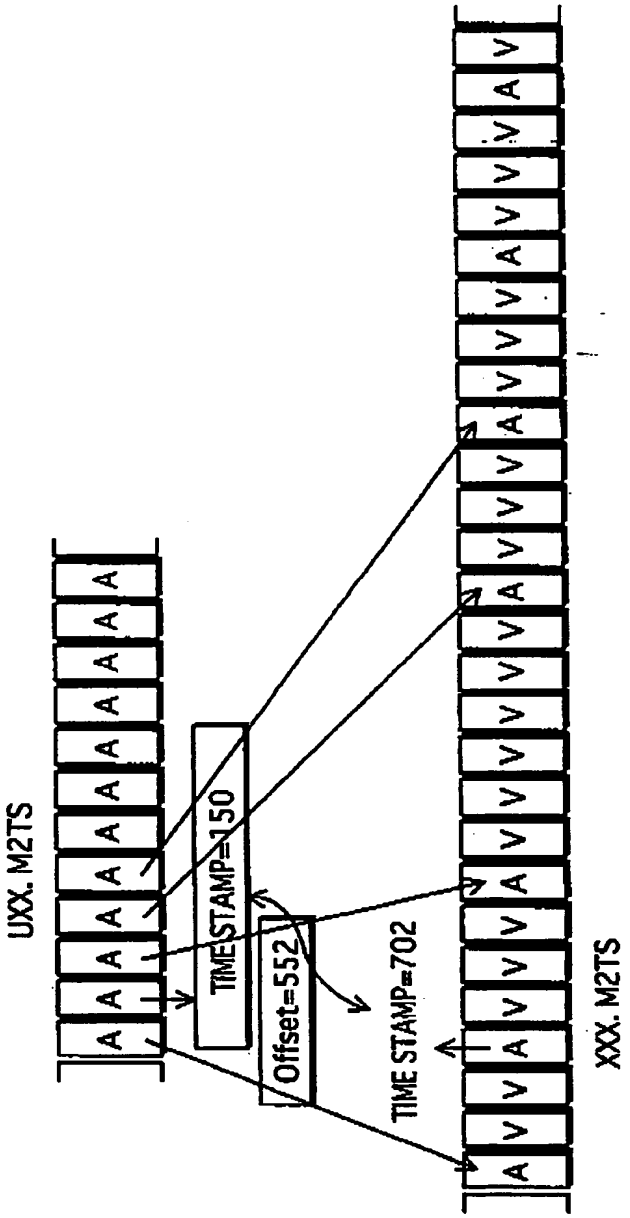

ATTRIBUTE INFORMATION
TMAP
VIDEO ATTRIBUTE INFORMATION
no video
Number
AUDIO ATTRIBUTE INFORMATION #1
Coding
Ch.
Lang.
Offsert
AUDIO ATTRIBUTE INFORMATION #m
Number
ACCESS UNIT Entry #1
Duration
Size
ACCESS UNIT Entry #m
UXX. CLPI
UXX. M2TS

FIG.16



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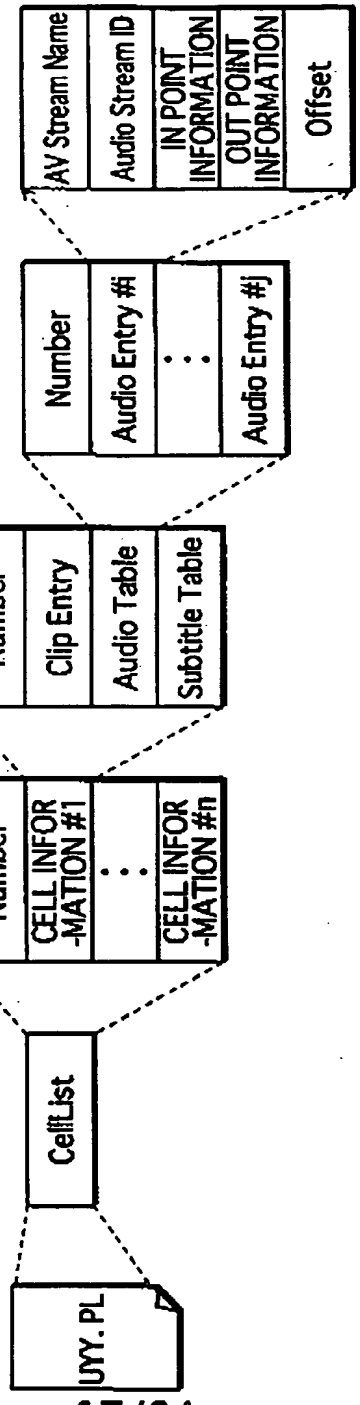


FIG.17

FIG.18

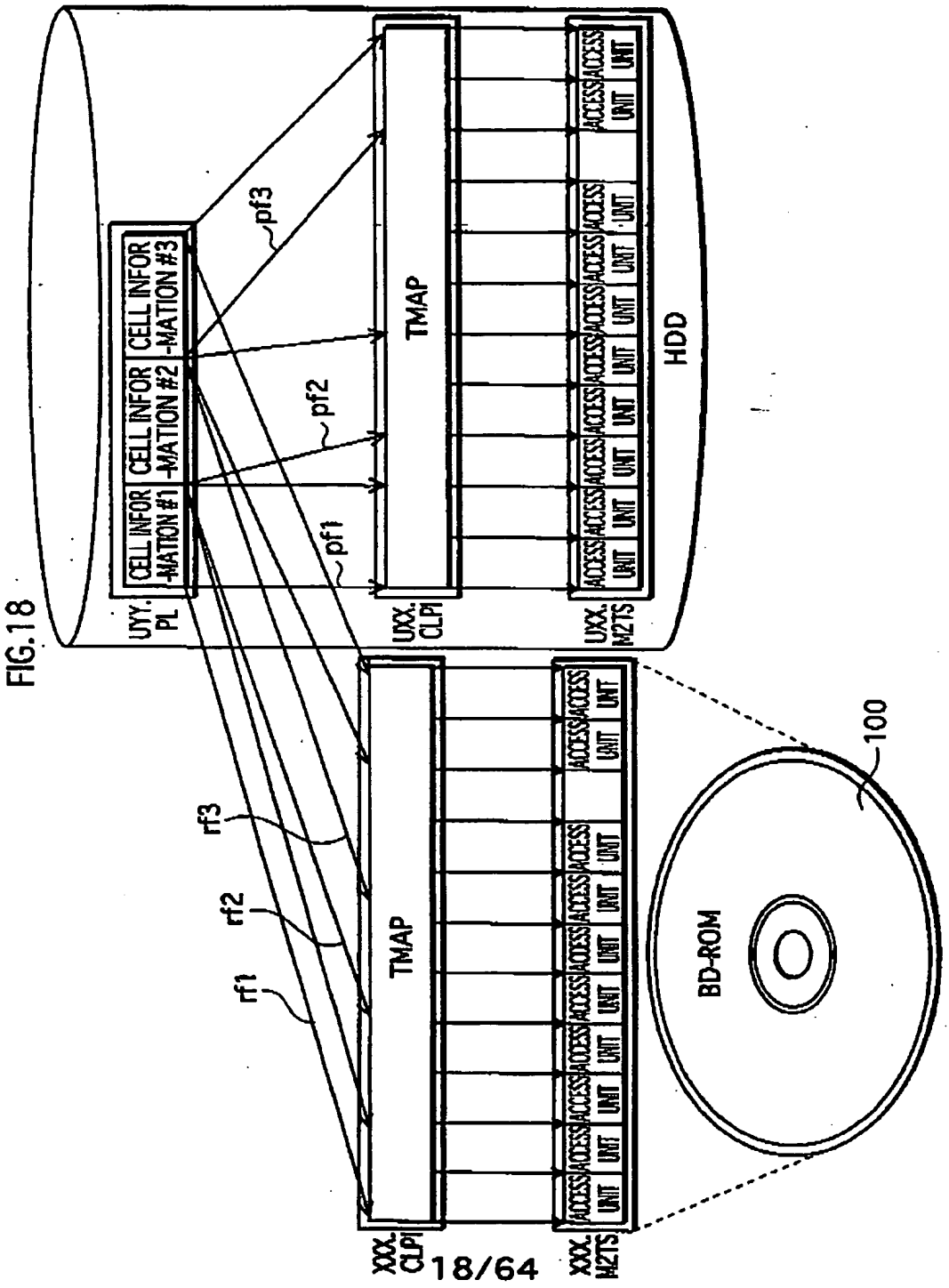
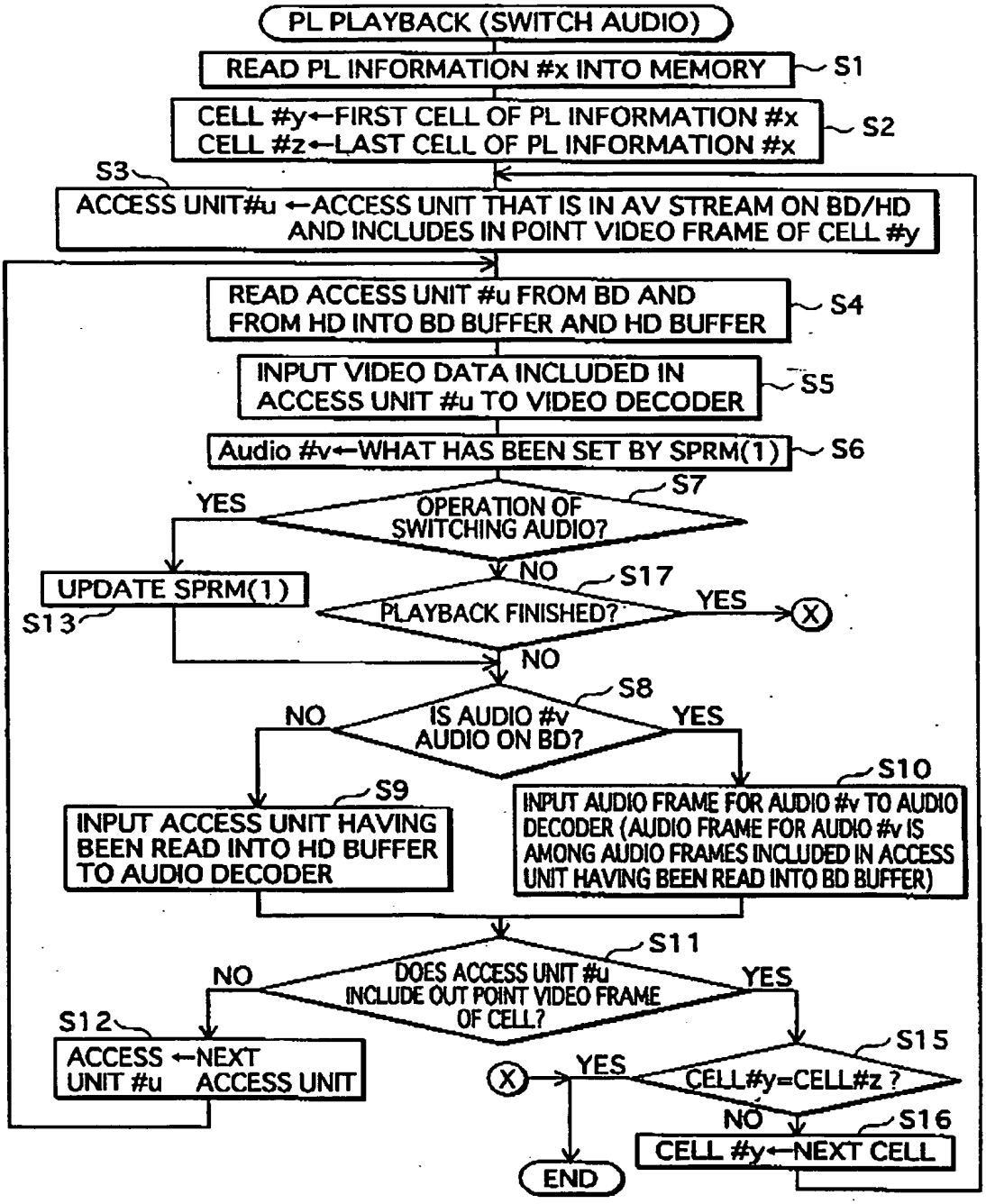

HDD
UYY.PL
UXX.CLPI
UXX.M2TS
CELL INFOR-MATION #1
CELL INFOR-MATION #2
CELL INFOR-MATION #3
TMAP
pf1
pf2
pf3
ACCESS UNIT
XXX.CLPI
XXX.M2TS
rf1
rf2
rf3
BD-ROM
100

FIG.19


PL PLAYBACK (SWITCH AUDIO)
READ PL INFORMATION #x INTO MEMORY
S1
CELL #y←FIRST CELL OF PL INFORMATION #x
CELL #z←LAST CELL OF PL INFORMATION #x
S2
S3
ACCESS UNIT#u ←ACCESS UNIT THAT IS IN AV STREAM ON BD/HD AND INCLUDES IN POINT VIDEO FRAME OF CELL #y
READ ACCESS UNIT #u FROM BD AND FROM HD INTO BD BUFFER AND HD BUFFER
S4
INPUT VIDEO DATA INCLUDED IN ACCESS UNIT #u TO VIDEO DECODER
S5
Audio #v←WHAT HAS BEEN SET BY SPRM(1)
S6
S7
OPERATION OF SWITCHING AUDIO?
YES
UPDATE SPRM(1)
S13
NO
S17
PLAYBACK FINISHED?
YES
X
NO
S8
IS AUDIO #v AUDIO ON BD?
NO
YES
S9
INPUT ACCESS UNIT HAVING BEEN READ INTO HD BUFFER TO AUDIO DECODER
S10
INPUT AUDIO FRAME FOR AUDIO #v TO AUDIO DECODER (AUDIO FRAME FOR AUDIO #v IS AMONG AUDIO FRAMES INCLUDED IN ACCESS UNIT HAVING BEEN READ INTO BD BUFFER)
S11
DOES ACCESS UNIT #u INCLUDE OUT POINT VIDEO FRAME OF CELL?
NO
YES
S12
ACCESS UNIT #u ←NEXT ACCESS UNIT
X
YES
S15
CELL#y=CELL#z ?
NO
S16
CELL #y←NEXT CELL
END

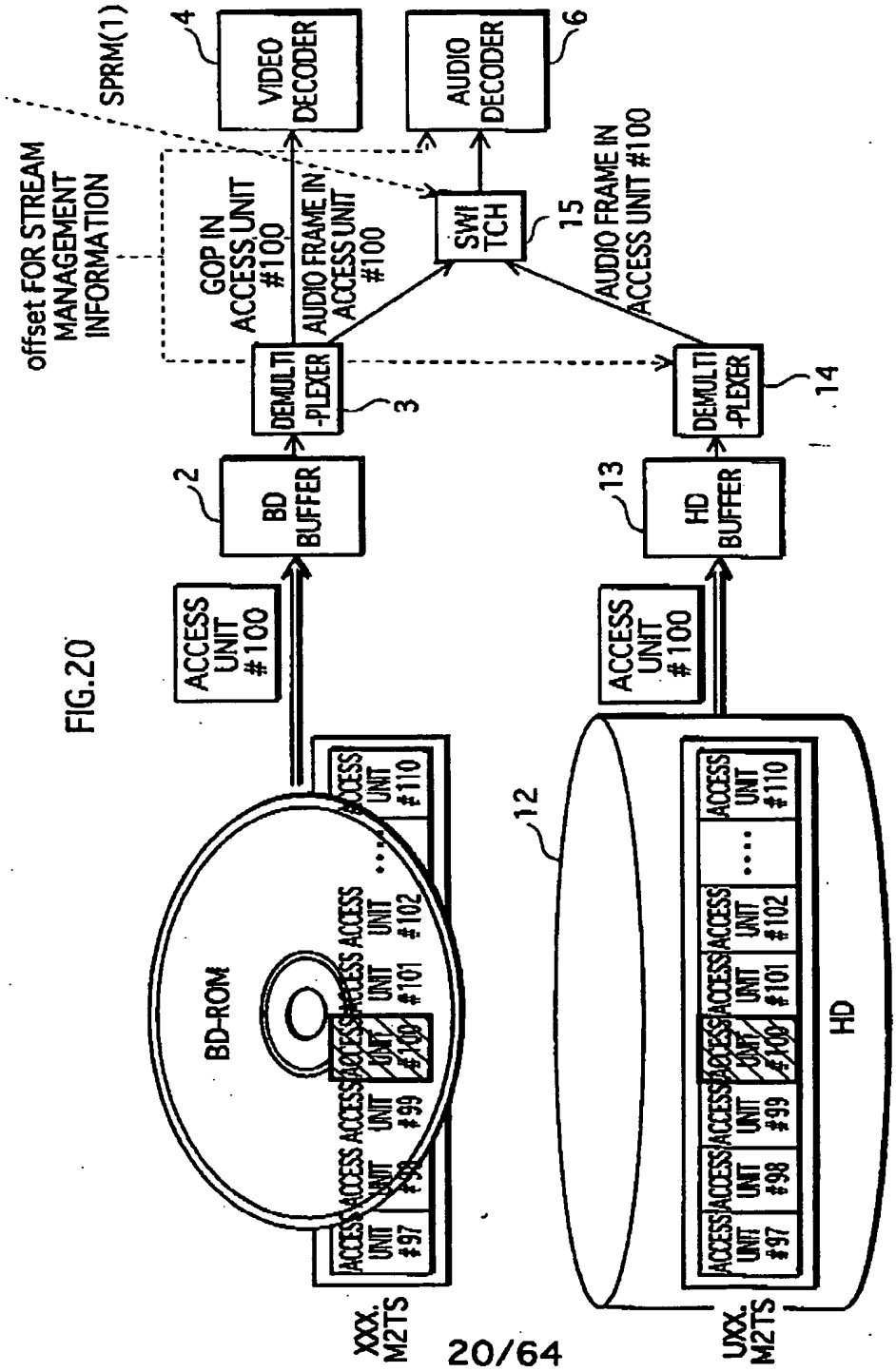

SPRM(1)
offset FOR STREAM MANAGEMENT INFORMATION
4
VIDEO DECODER
6
AUDIO DECODER
GOP IN ACCESS UNIT #100
AUDIO FRAME IN ACCESS UNIT #100
SWITCH
15
AUDIO FRAME IN ACCESS UNIT #100
DEMULTI-PLEXER
3
DEMULTI-PLEXER
14
2
BD BUFFER
13
HD BUFFER
ACCESS UNIT #100
ACCESS UNIT #100
BD-ROM
12
ACCESS UNIT #97
ACCESS UNIT #98
ACCESS UNIT #99
ACCESS UNIT #100
ACCESS UNIT #101
ACCESS UNIT #102
ACCESS UNIT #110
HD
XXX.M2TS
UXX.M2TS

FIG.20

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FIG.21

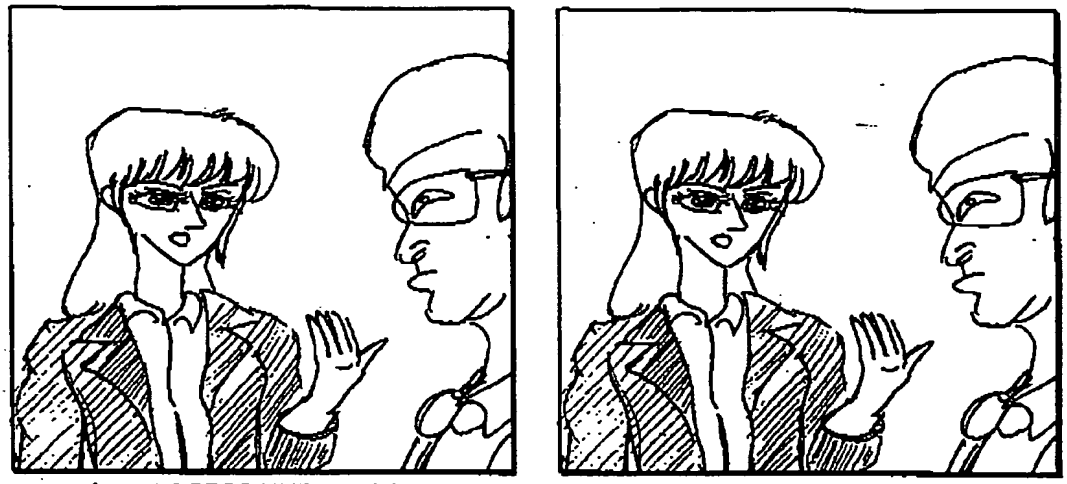
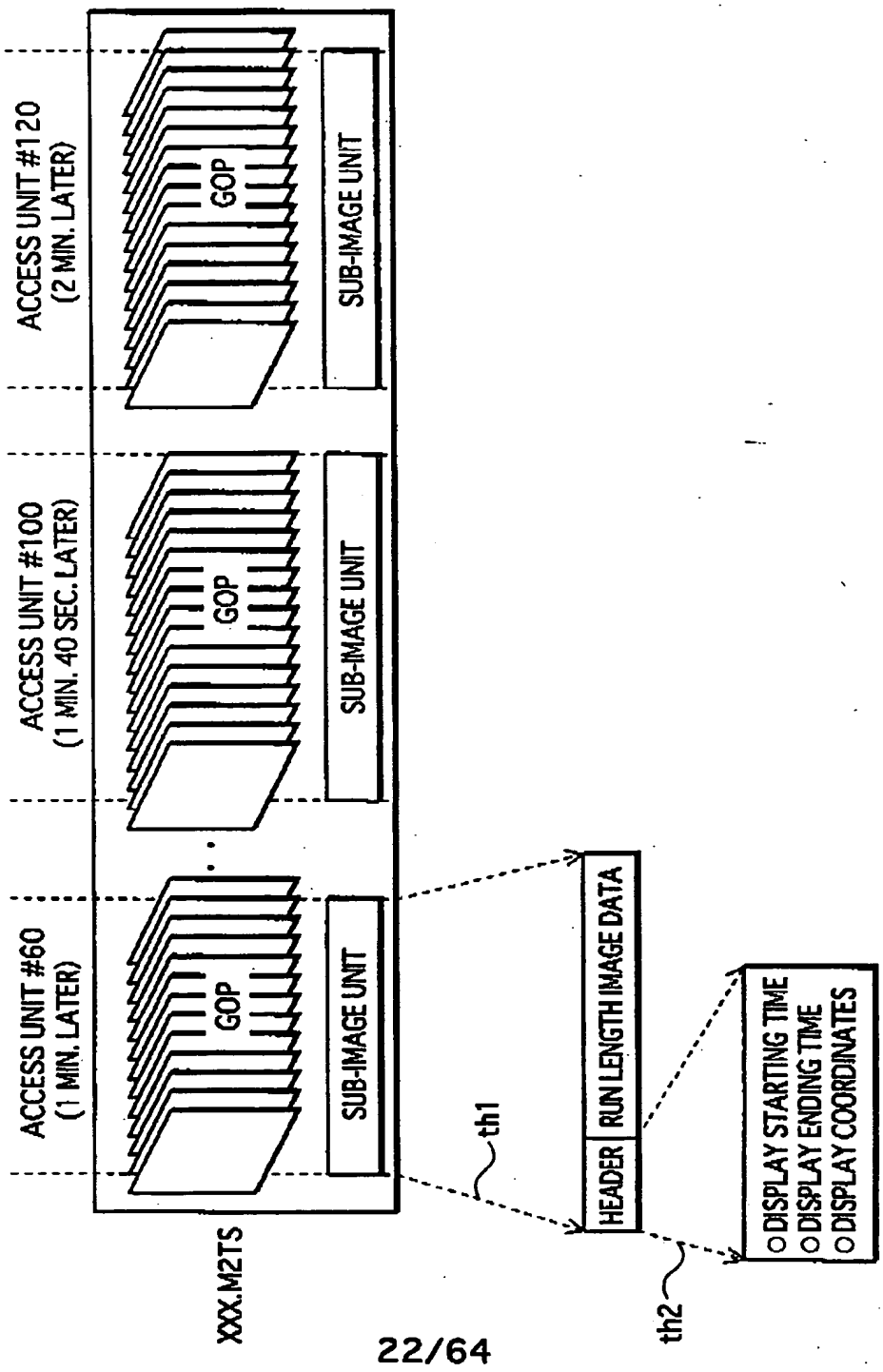


FIG.22


ACCESS UNIT #120
(2 MIN. LATER)
GOP
SUB-IMAGE UNIT
ACCESS UNIT #100
(1 MIN. 40 SEC. LATER)
GOP
SUB-IMAGE UNIT
ACCESS UNIT #60
(1 MIN. LATER)
GOP
SUB-IMAGE UNIT
XXX.M2TS
th1
HEADER
RUN LENGTH IMAGE DATA
th2
DISPLAY STARTING TIME
DISPLAY ENDING TIME
DISPLAY COORDINATES

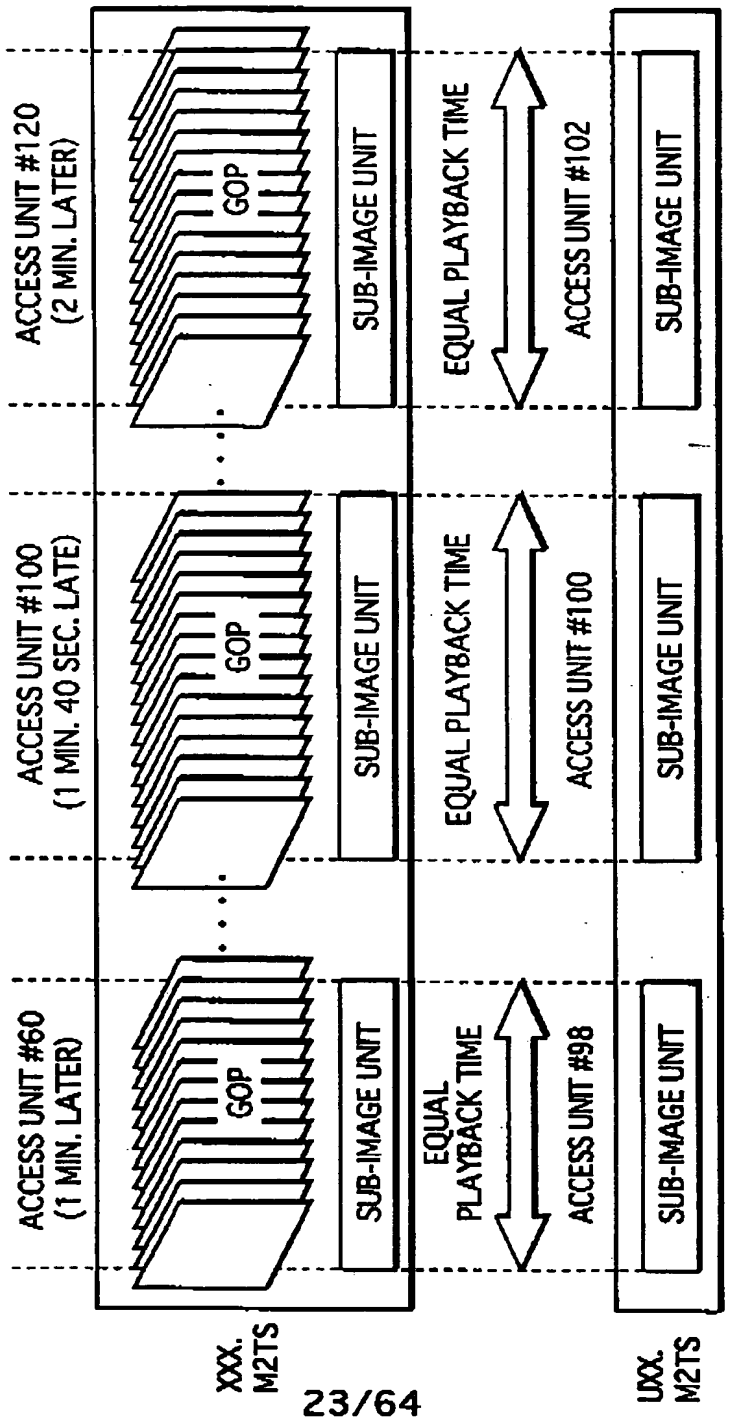

ACCESS UNIT #120
(2 MIN. LATER)
GOP
SUB-IMAGE UNIT
EQUAL PLAYBACK TIME
ACCESS UNIT #102
SUB-IMAGE UNIT
ACCESS UNIT #100
(1 MIN. 40 SEC. LATE)
GOP
SUB-IMAGE UNIT
EQUAL PLAYBACK TIME
ACCESS UNIT #100
SUB-IMAGE UNIT
ACCESS UNIT #60
(1 MIN. LATER)
GOP
SUB-IMAGE UNIT
EQUAL
PLAYBACK TIME
ACCESS UNIT #98
SUB-IMAGE UNIT
XXX.
M2TS
UXX.
M2TS

FIG.23

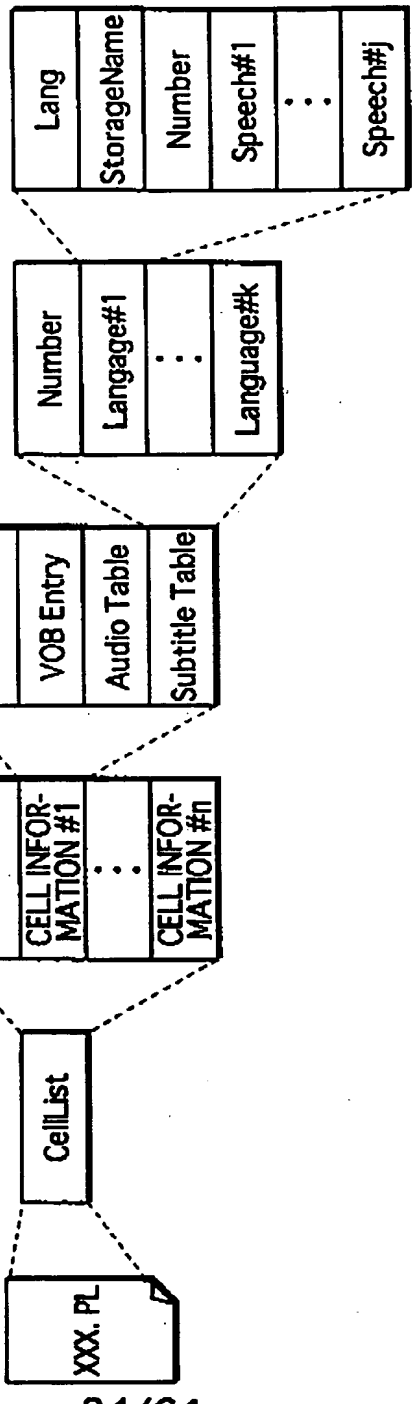

Lang
StorageName
Number
Speech#1
Speech#j
Number
Langage#1
Language#k
Number
VOB Entry
Audio Table
Subtitle Table
Number
CELL INFOR-MATION #1
CELL INFOR-MATION #n
CellList
XXX. PL

FIG.24

FIG.25

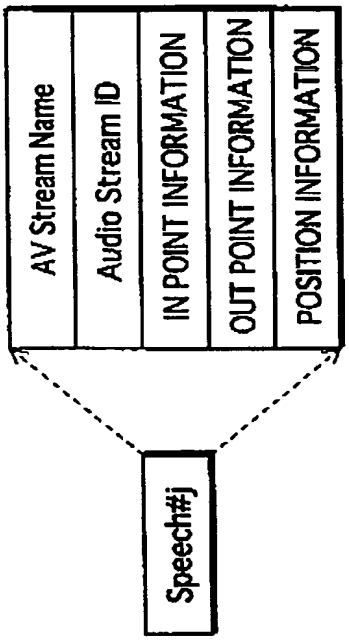

AV Stream Name
Audio Stream ID
IN POINT INFORMATION
OUT POINT INFORMATION
POSITION INFORMATION
Speech#j

FIG.26

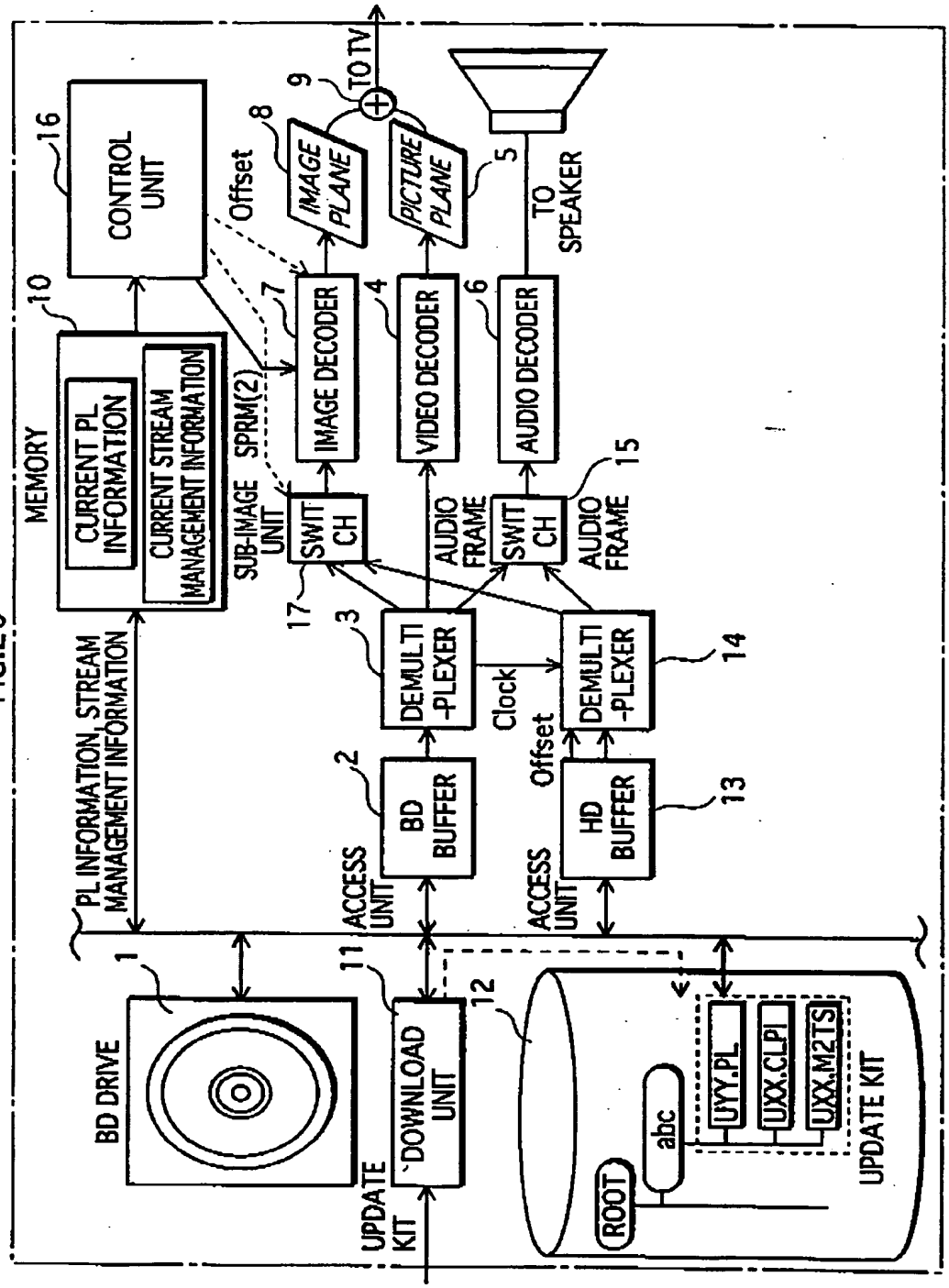
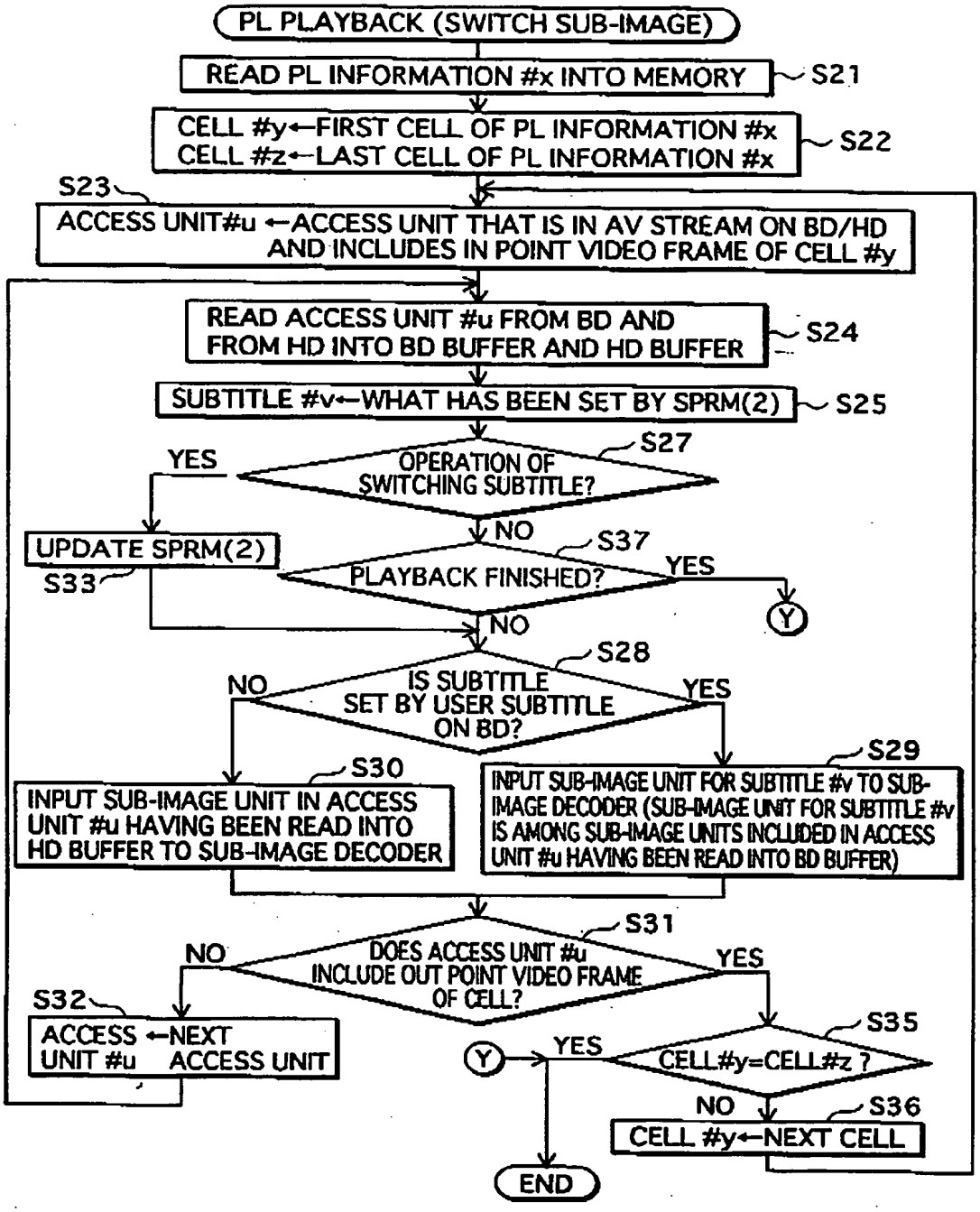

BD DRIVE
1
UPDATE KIT
DOWNLOAD UNIT
11
ACCESS UNIT
BD BUFFER
2
HD BUFFER
13
Offset
Clock
DEMULTI -PLEXER
3
DEMULTI -PLEXER
14
SWIT CH
17
SWIT CH
15
AUDIO FRAME
AUDIO FRAME
SUB-IMAGE UNIT
SPRM(2)
Offset
IMAGE DECODER
7
VIDEO DECODER
4
AUDIO DECODER
6
IMAGE PLANE
8
PICTURE PLANE
5
9
TO TV
TO SPEAKER
CONTROL UNIT
16
MEMORY
10
CURRENT PL INFORMATION
CURRENT STREAM MANAGEMENT INFORMATION
PL INFORMATION, STREAM MANAGEMENT INFORMATION
12
ROOT
abc
UYY.PL
UXX.CLPI
UXX.M2TS
UPDATE KIT

FIG.27


PL PLAYBACK (SWITCH SUB-IMAGE)
READ PL INFORMATION #x INTO MEMORY
S21
CELL #y←FIRST CELL OF PL INFORMATION #x
CELL #z←LAST CELL OF PL INFORMATION #x
S22
S23
ACCESS UNIT#u ←ACCESS UNIT THAT IS IN AV STREAM ON BD/HD AND INCLUDES IN POINT VIDEO FRAME OF CELL #y
READ ACCESS UNIT #u FROM BD AND FROM HD INTO BD BUFFER AND HD BUFFER
S24
SUBTITLE #v←WHAT HAS BEEN SET BY SPRM(2)
S25
S27
OPERATION OF SWITCHING SUBTITLE?
YES
NO
UPDATE SPRM(2)
S33
S37
PLAYBACK FINISHED?
YES
NO
Y
S28
IS SUBTITLE SET BY USER SUBTITLE ON BD?
NO
YES
S30
INPUT SUB-IMAGE UNIT IN ACCESS UNIT #u HAVING BEEN READ INTO HD BUFFER TO SUB-IMAGE DECODER
S29
INPUT SUB-IMAGE UNIT FOR SUBTITLE #v TO SUB-IMAGE DECODER (SUB-IMAGE UNIT FOR SUBTITLE #v IS AMONG SUB-IMAGE UNITS INCLUDED IN ACCESS UNIT #u HAVING BEEN READ INTO BD BUFFER)
S31
DOES ACCESS UNIT #u INCLUDE OUT POINT VIDEO FRAME OF CELL?
NO
YES
S32
ACCESS UNIT #u ←NEXT ACCESS UNIT
Y
YES
S35
CELL#y=CELL#z ?
NO
S36
CELL #y←NEXT CELL
END

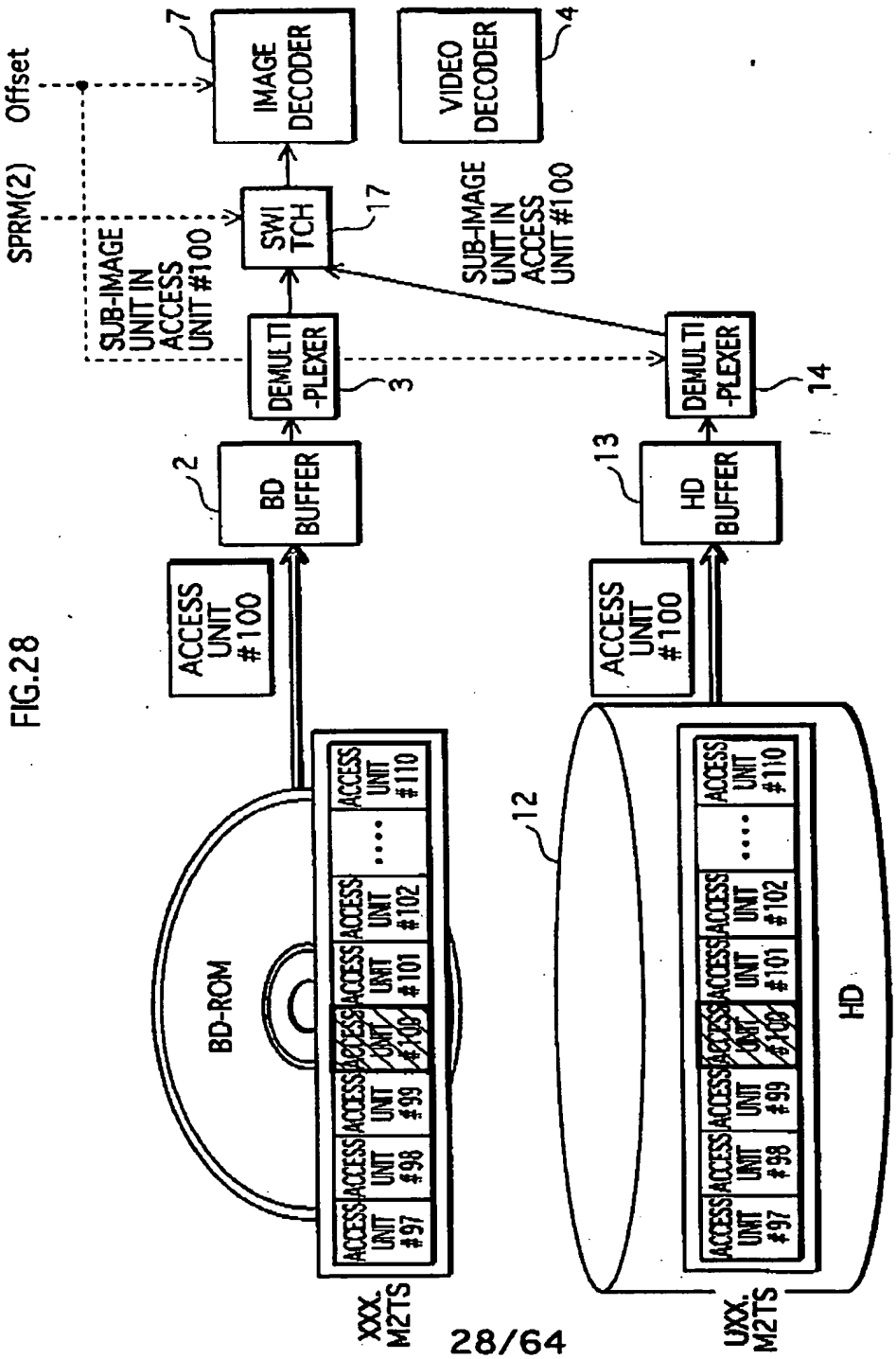

Offset
SPRM(2)
SUB-IMAGE UNIT IN ACCESS UNIT #100
IMAGE DECODER
VIDEO DECODER
SWITCH
SUB-IMAGE UNIT IN ACCESS UNIT #100
DEMULTI-PLEXER
DEMULTI-PLEXER
BD BUFFER
HD BUFFER
ACCESS UNIT #100
ACCESS UNIT #100
BD-ROM
HD
ACCESS UNIT #97
ACCESS UNIT #98
ACCESS UNIT #99
ACCESS UNIT #100
ACCESS UNIT #101
ACCESS UNIT #102
ACCESS UNIT #110
XXX.M2TS
UXX.M2TS

FIG.28

FIG.29

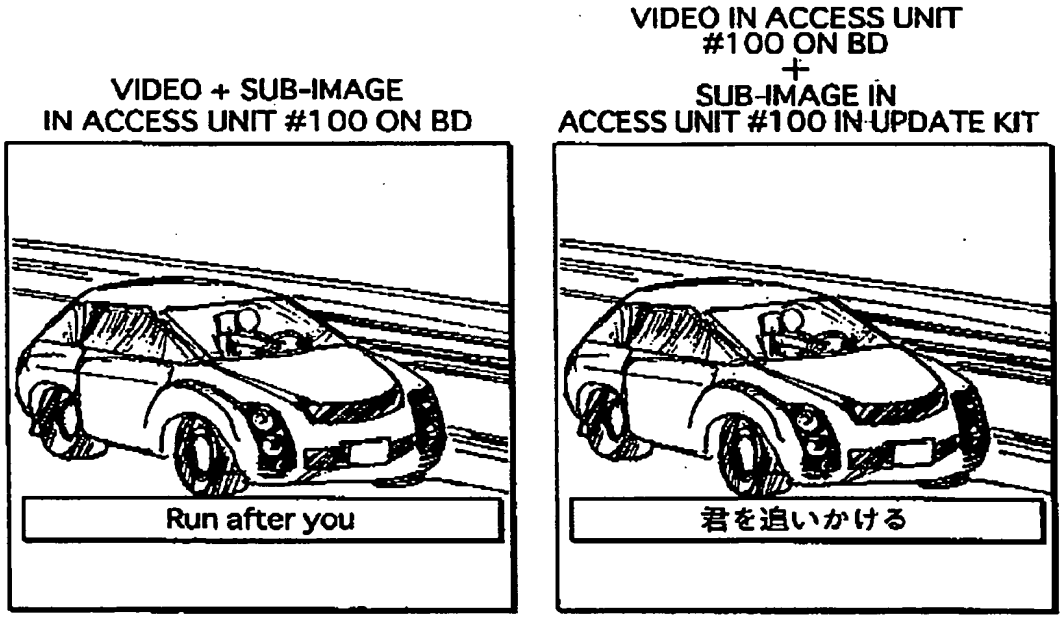

VIDEO + SUB-IMAGE
IN ACCESS UNIT #100 ON BD
Run after you
VIDEO IN ACCESS UNIT
#100 ON BD
+
SUB-IMAGE IN
ACCESS UNIT #100 IN UPDATE KIT
君を追いかける

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FIG.30A

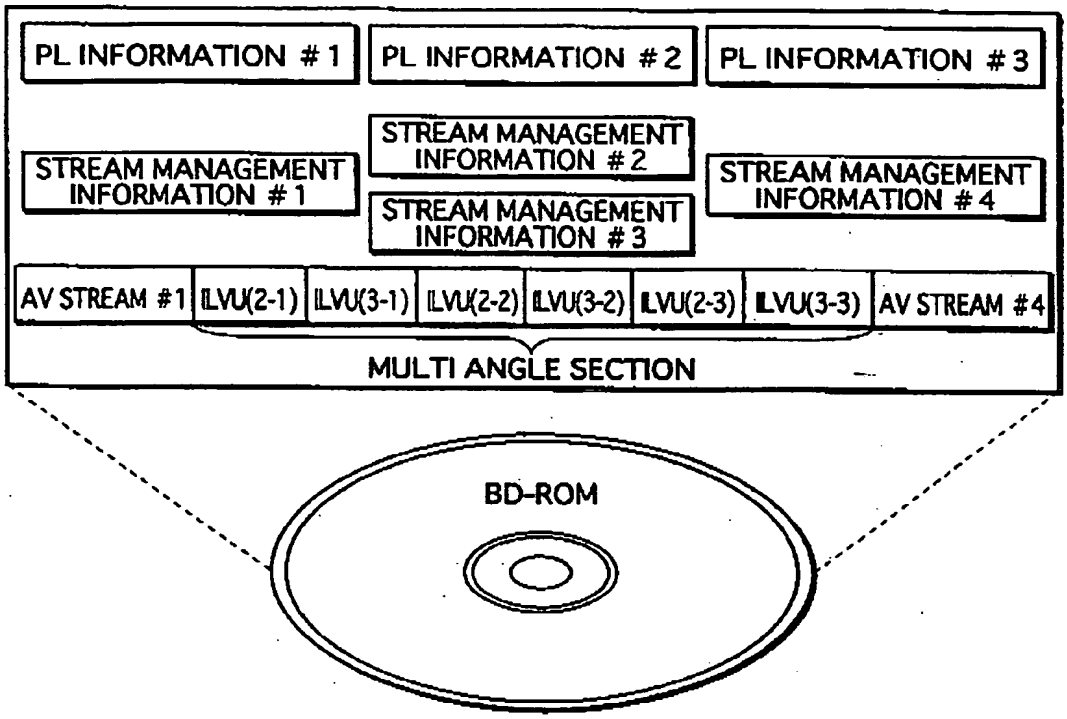


FIG.30B

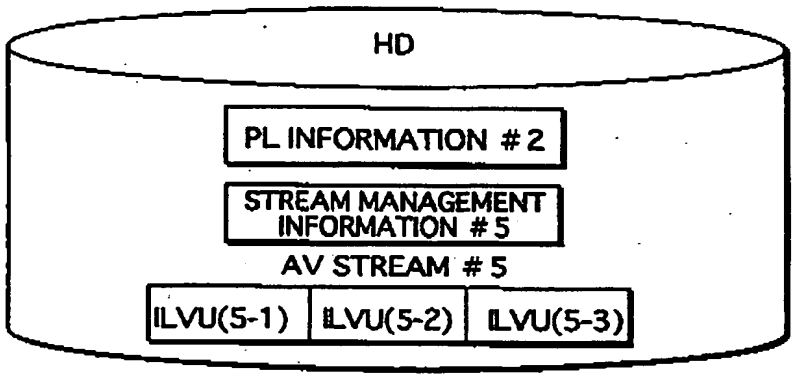
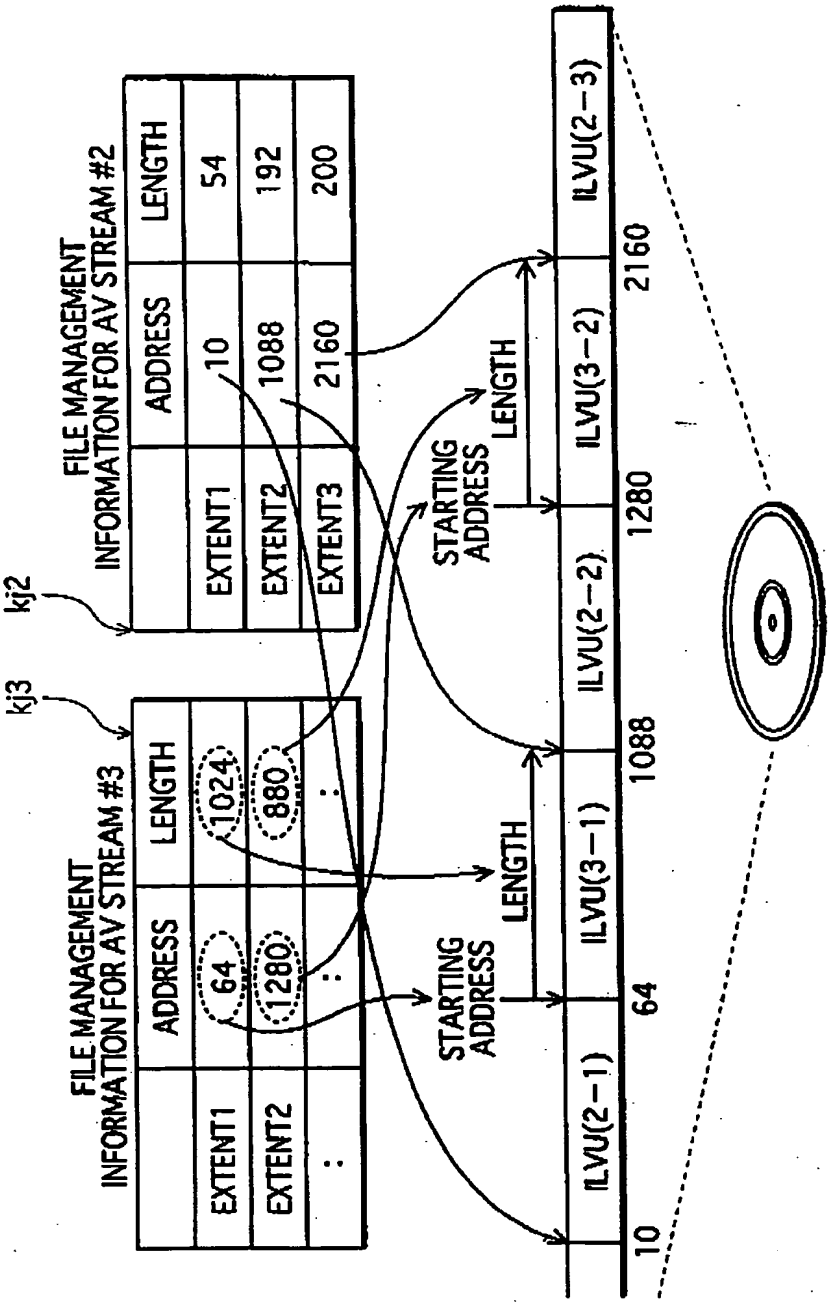


FIG.31


kj2
FILE MANAGEMENT INFORMATION FOR AV STREAM #2
ADDRESS
LENGTH
EXTENT1
10
54
EXTENT2
1088
192
EXTENT3
2160
200
kj3
FILE MANAGEMENT INFORMATION FOR AV STREAM #3
ADDRESS
LENGTH
EXTENT1
64
1024
EXTENT2
1280
880
STARTING ADDRESS
LENGTH
STARTING ADDRESS
LENGTH
ILVU(2-1)
ILVU(3-1)
ILVU(2-2)
ILVU(3-2)
ILVU(2-3)
10
64
1088
1280
2160

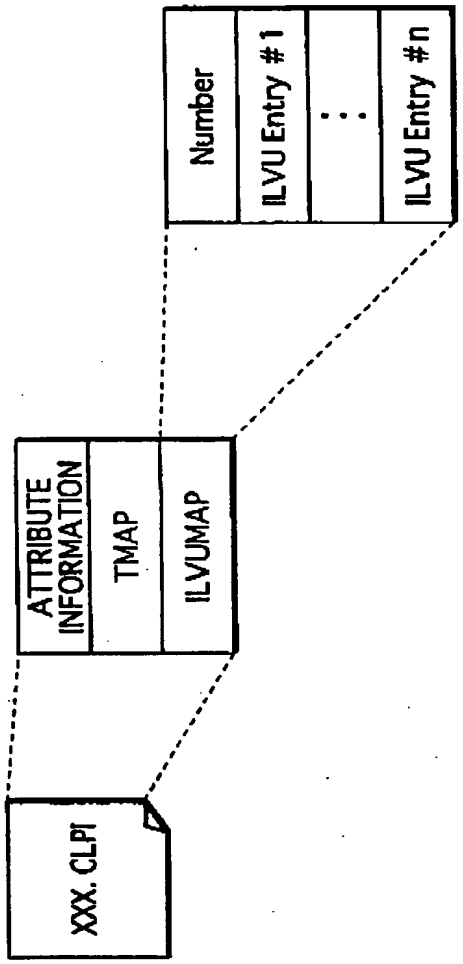

Number
ILVU Entry #1
ILVU Entry #n
ATTRIBUTE INFORMATION
TMAP
ILVUMAP
XXX. CLPI

FIG.32

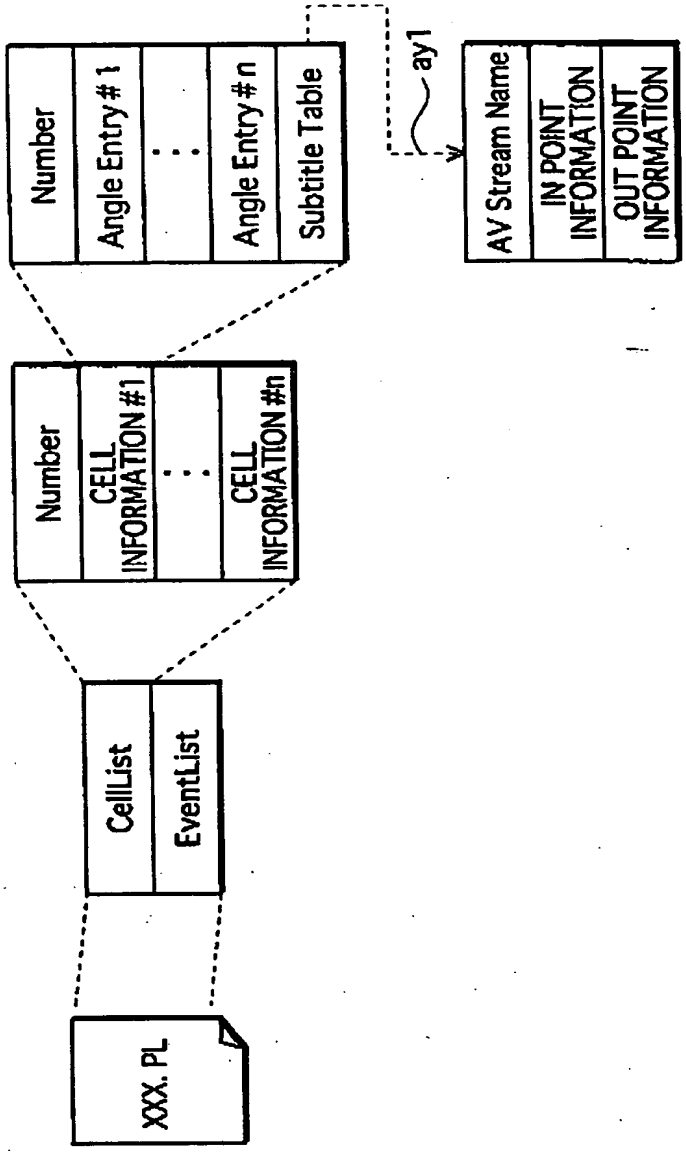

Number
Angle Entry# 1
Angle Entry#n
Subtitle Table
ay1
AV Stream Name
IN POINT INFORMATION
OUT POINT INFORMATION
Number
CELL INFORMATION #1
CELL INFORMATION #n
CellList
EventList
XXX. PL

FIG.33

FIG.34

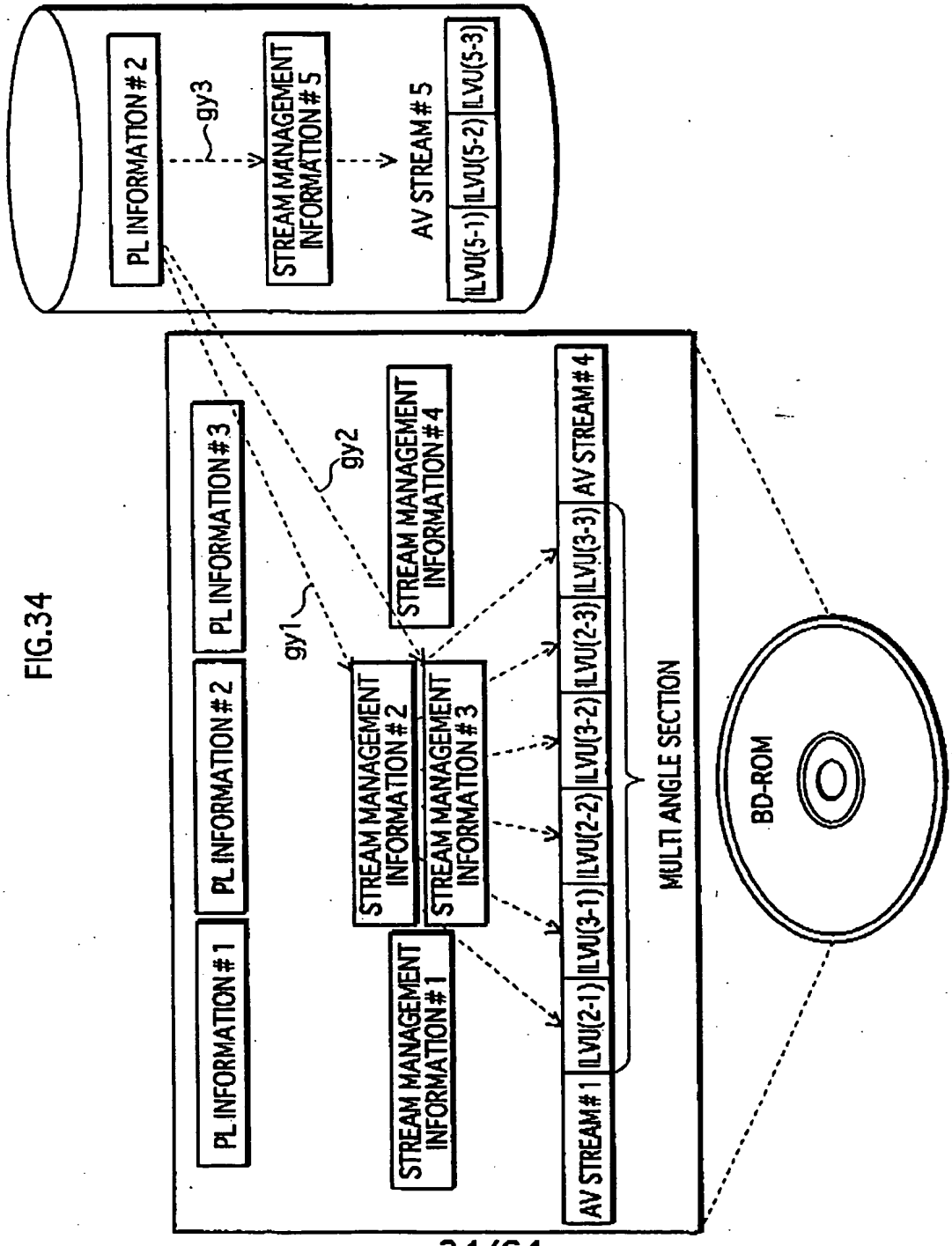

PL INFORMATION # 2
gy3
STREAM MANAGEMENT INFORMATION # 5
AV STREAM # 5
ILVU(5-1)
ILVU(5-2)
ILVU(5-3)
PL INFORMATION # 1
PL INFORMATION # 2
PL INFORMATION # 3
gy1
gy2
STREAM MANAGEMENT INFORMATION # 1
STREAM MANAGEMENT INFORMATION # 2
STREAM MANAGEMENT INFORMATION # 3
STREAM MANAGEMENT INFORMATION # 4
AV STREAM # 1
ILVU(2-1)
ILVU(3-1)
ILVU(2-2)
ILVU(3-2)
ILVU(2-3)
ILVU(3-3)
AV STREAM # 4
MULTI ANGLE SECTION
BD-ROM

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FIG.35

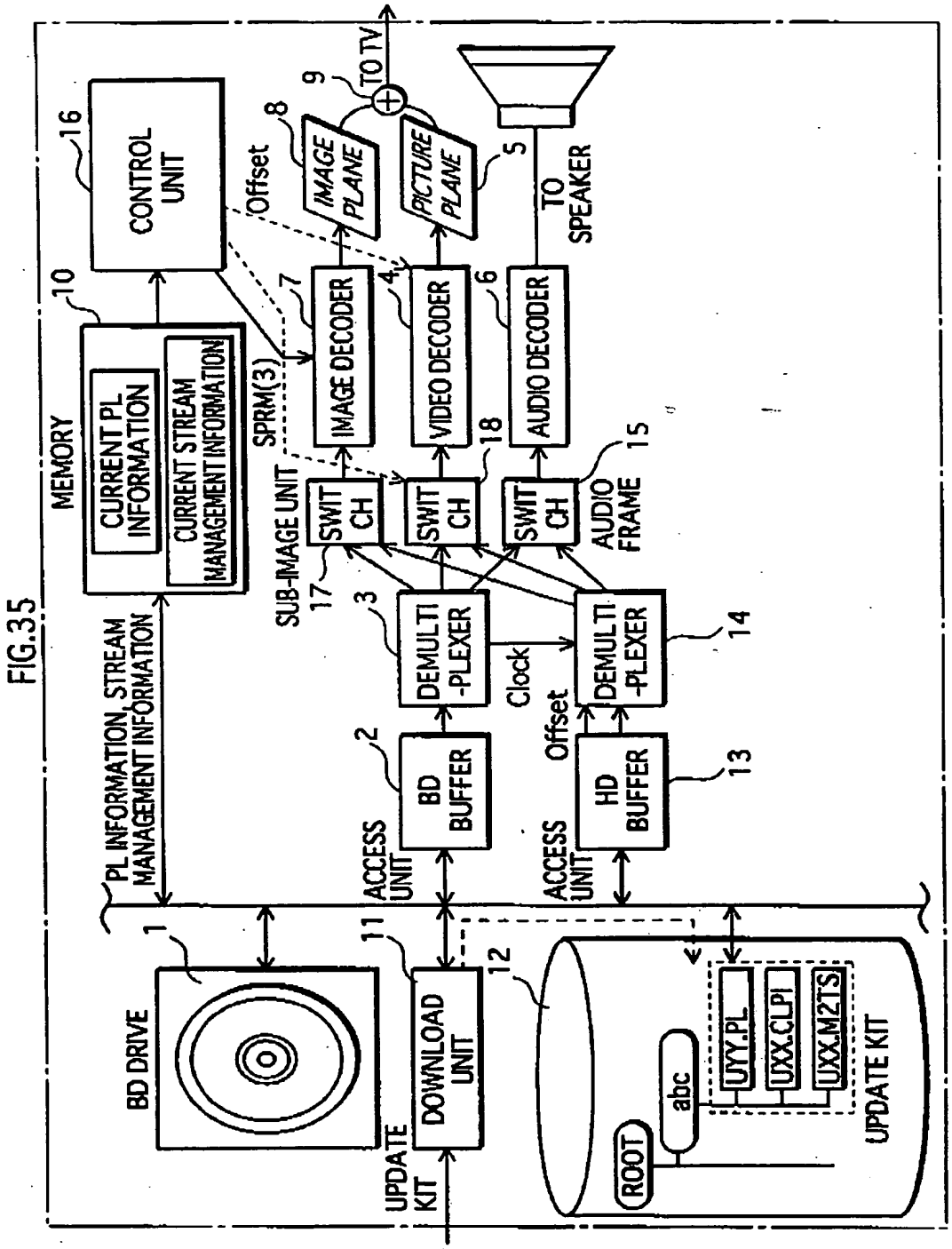

FIG.36

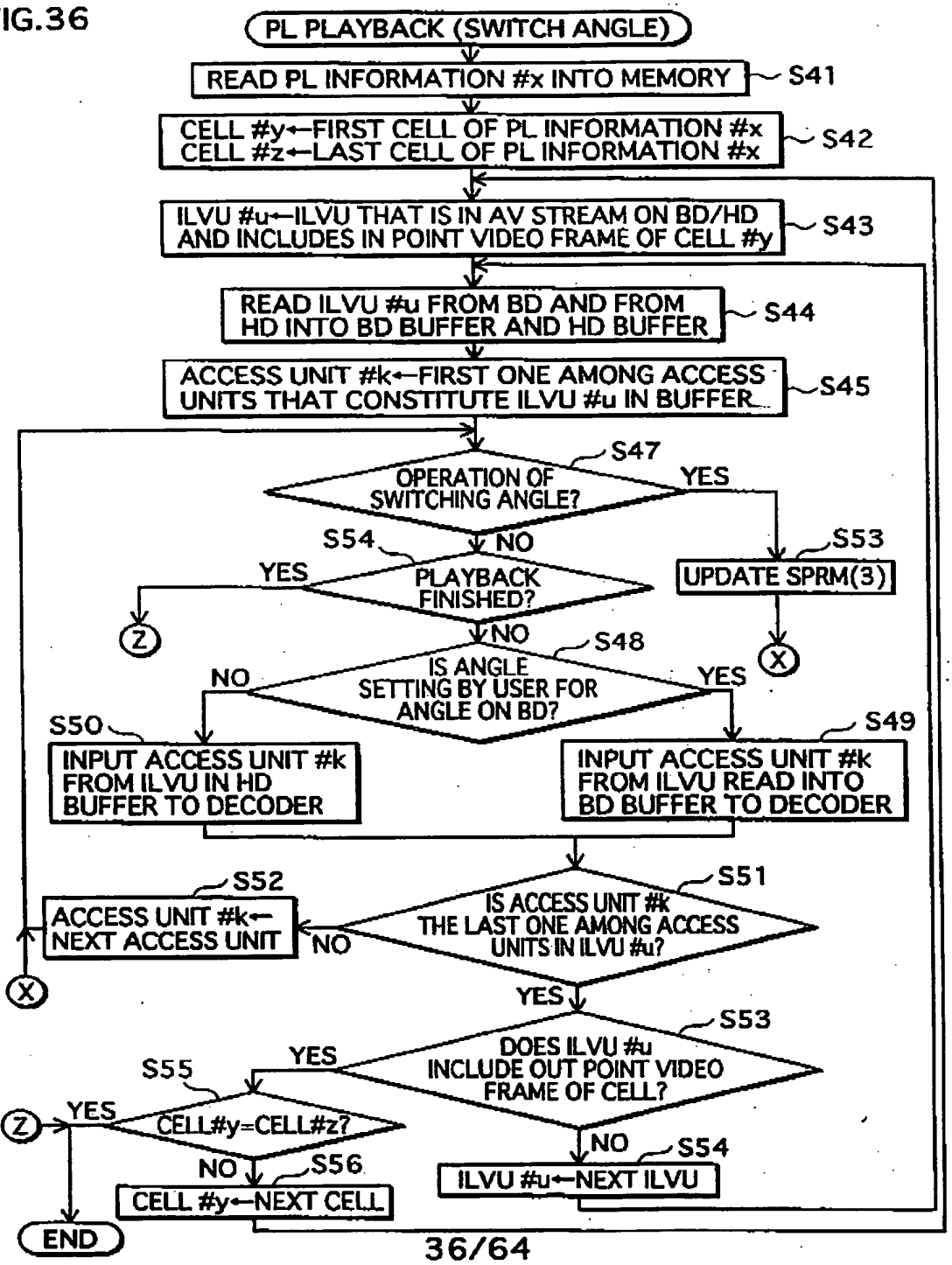
PL PLAYBACK (SWITCH ANGLE)
READ PL INFORMATION #x INTO MEMORY
S41
CELL #y←FIRST CELL OF PL INFORMATION #x
CELL #z←LAST CELL OF PL INFORMATION #x
S42
ILVU #u←ILVU THAT IS IN AV STREAM ON BD/HD AND INCLUDES IN POINT VIDEO FRAME OF CELL #y
S43
READ ILVU #u FROM BD AND FROM HD INTO BD BUFFER AND HD BUFFER
S44
ACCESS UNIT #k←FIRST ONE AMONG ACCESS UNITS THAT CONSTITUTE ILVU #u IN BUFFER
S45
S47
OPERATION OF SWITCHING ANGLE?
YES
NO
S53
UPDATE SPRM(3)
S54
PLAYBACK FINISHED?
YES
NO
Z
X
S48
IS ANGLE SETTING BY USER FOR ANGLE ON BD?
NO
YES
S50
INPUT ACCESS UNIT #k FROM ILVU IN HD BUFFER TO DECODER
S49
INPUT ACCESS UNIT #k FROM ILVU READ INTO BD BUFFER TO DECODER
S52
ACCESS UNIT #k← NEXT ACCESS UNIT
S51
IS ACCESS UNIT #k THE LAST ONE AMONG ACCESS UNITS IN ILVU #u?
NO
YES
X
S53
DOES ILVU #u INCLUDE OUT POINT VIDEO FRAME OF CELL?
YES
NO
S55
CELL#y=CELL#z?
Z
YES
NO
S56
CELL #y←NEXT CELL
S54
ILVU #u←NEXT ILVU
END

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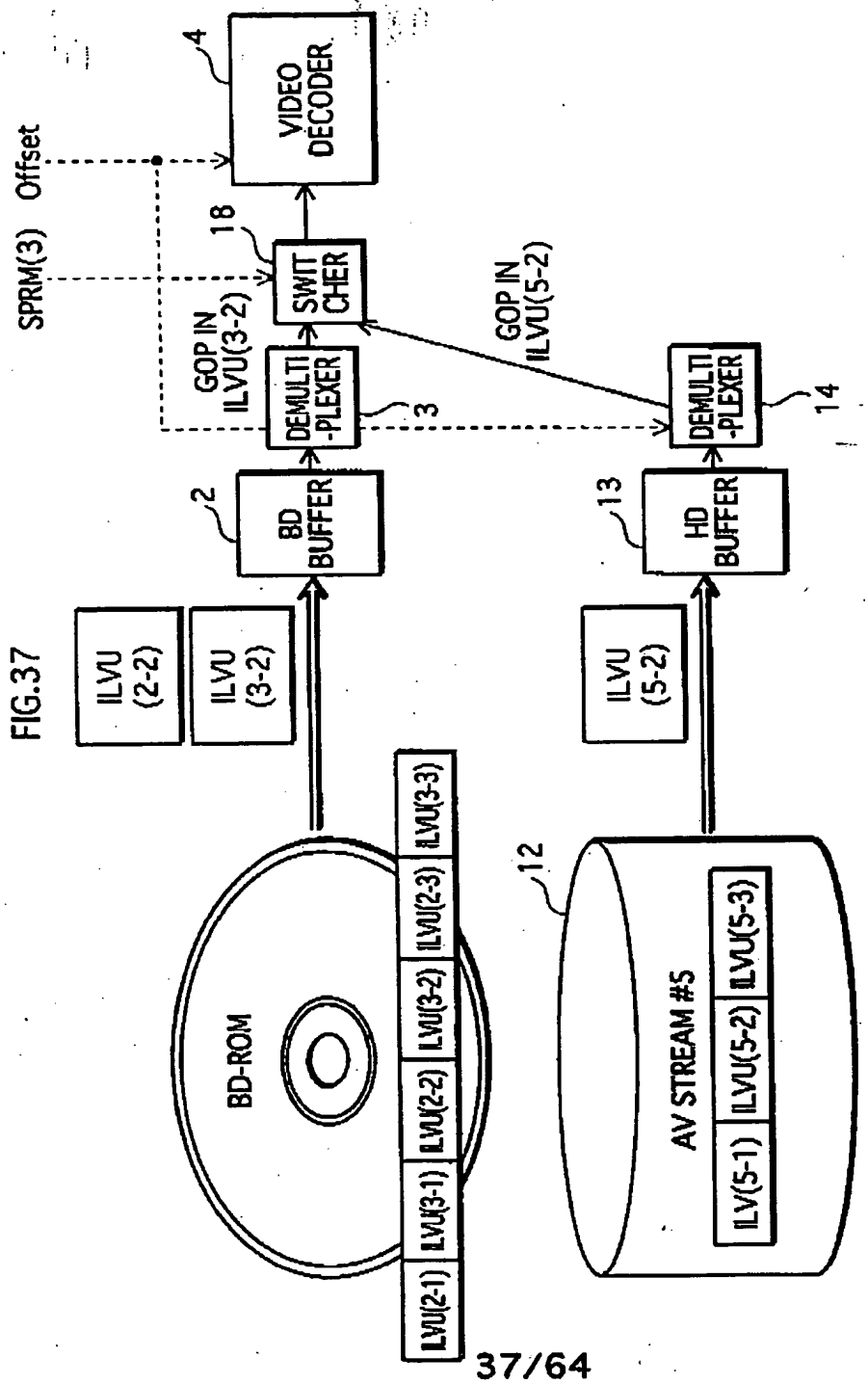
FIG.37



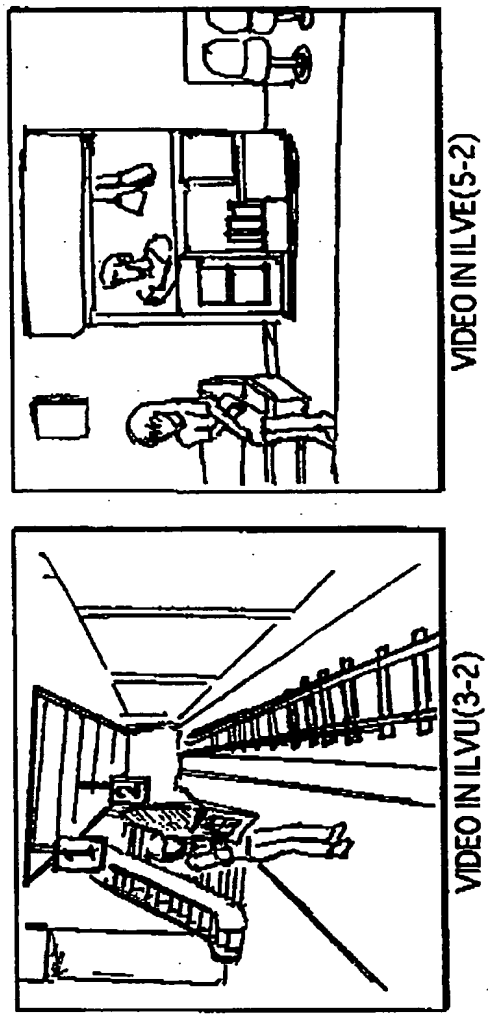


FIG.38

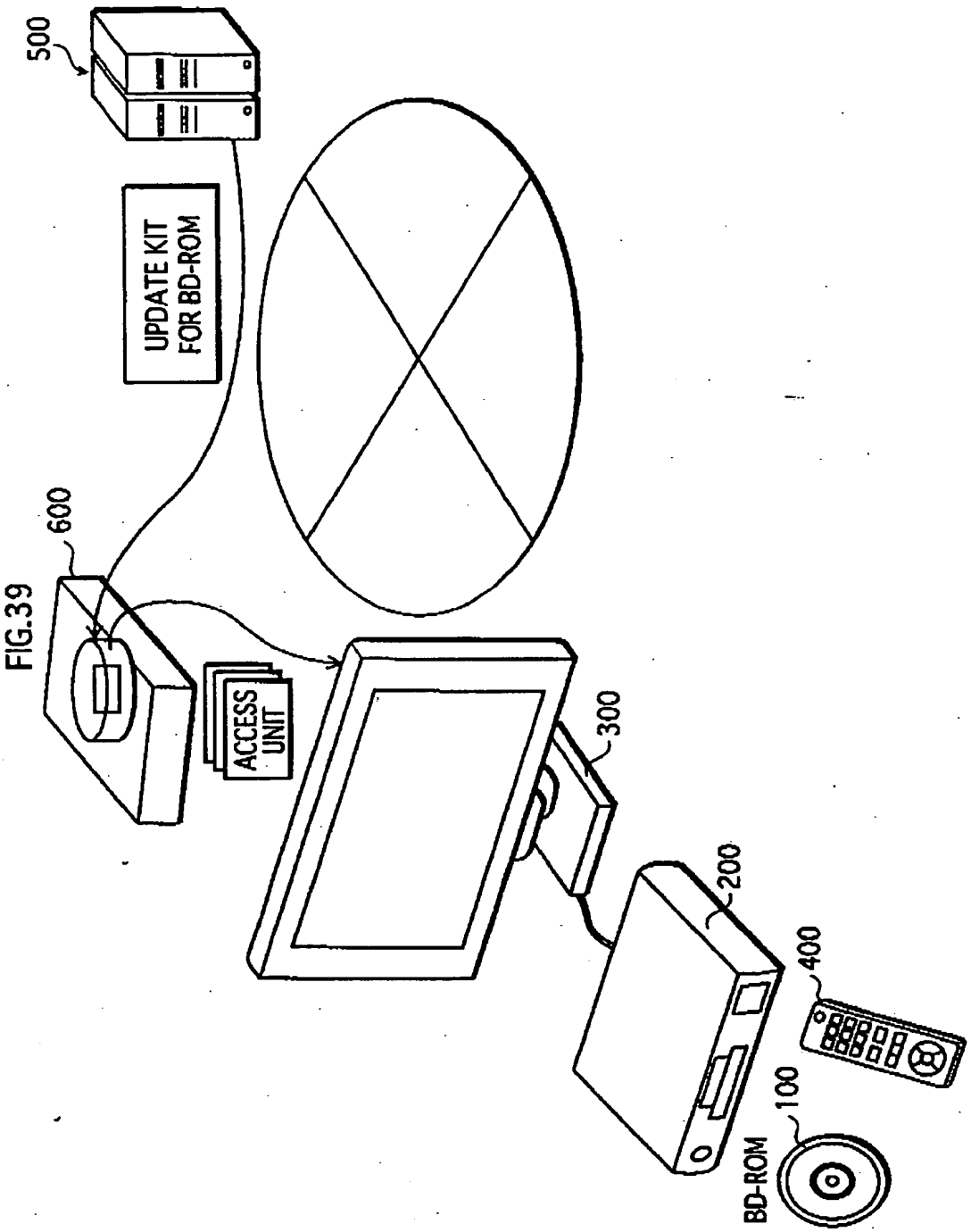
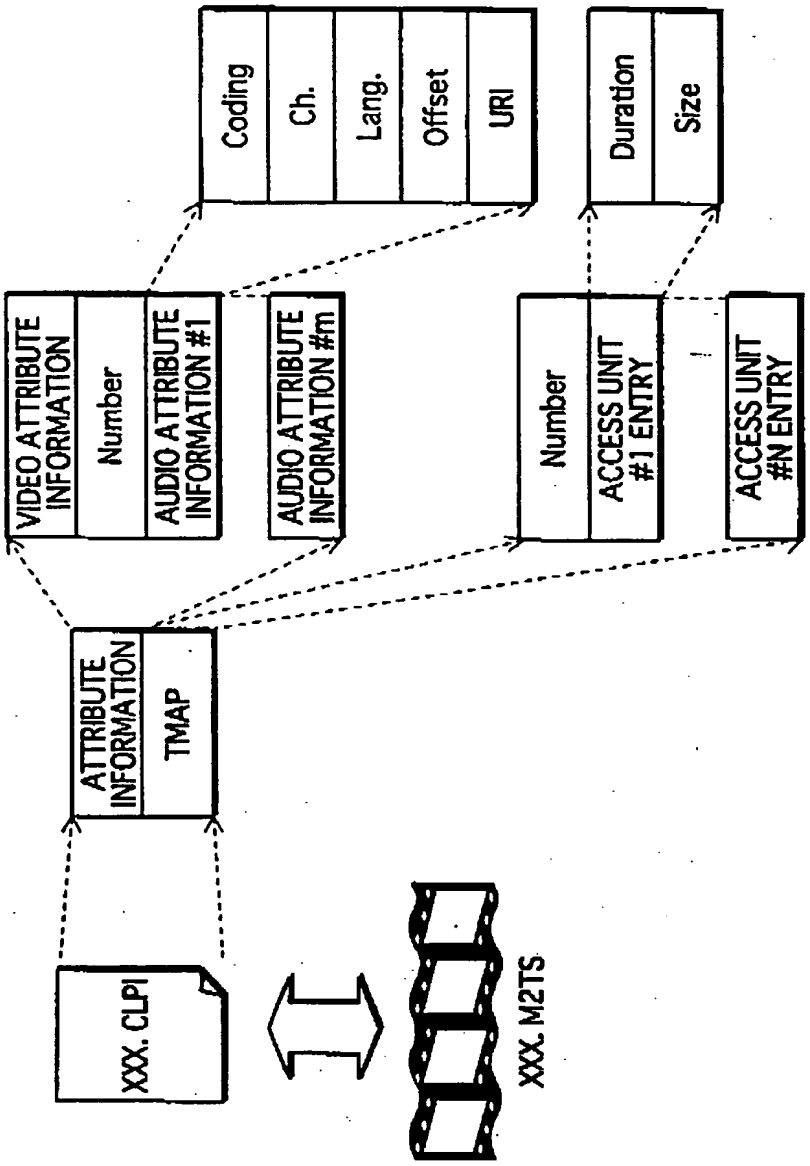

500
UPDATE KIT FOR BD-ROM
600
ACCESS UNIT
300
200
400
100
BD-ROM

FIG.39

FIG.40


Coding
Ch.
Lang.
Offset
URI
Duration
Size
VIDEO ATTRIBUTE INFORMATION
Number
AUDIO ATTRIBUTE INFORMATION #1
AUDIO ATTRIBUTE INFORMATION #m
Number
ACCESS UNIT #1 ENTRY
ACCESS UNIT #N ENTRY
ATTRIBUTE INFORMATION
TMAP
XXX. CLPI
XXX. M2TS

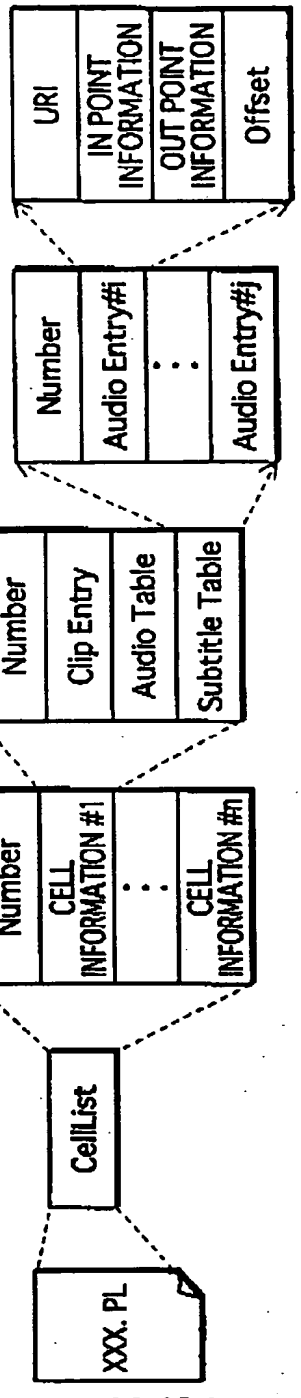

URI
IN POINT INFORMATION
OUT POINT INFORMATION
Offset
Number
Audio Entry#i
Audio Entry#j
Number
Clip Entry
Audio Table
Subtitle Table
Number
CELL INFORMATION #1
CELL INFORMATION #n
CellList
XXX. PL

FIG.41

FIG.42

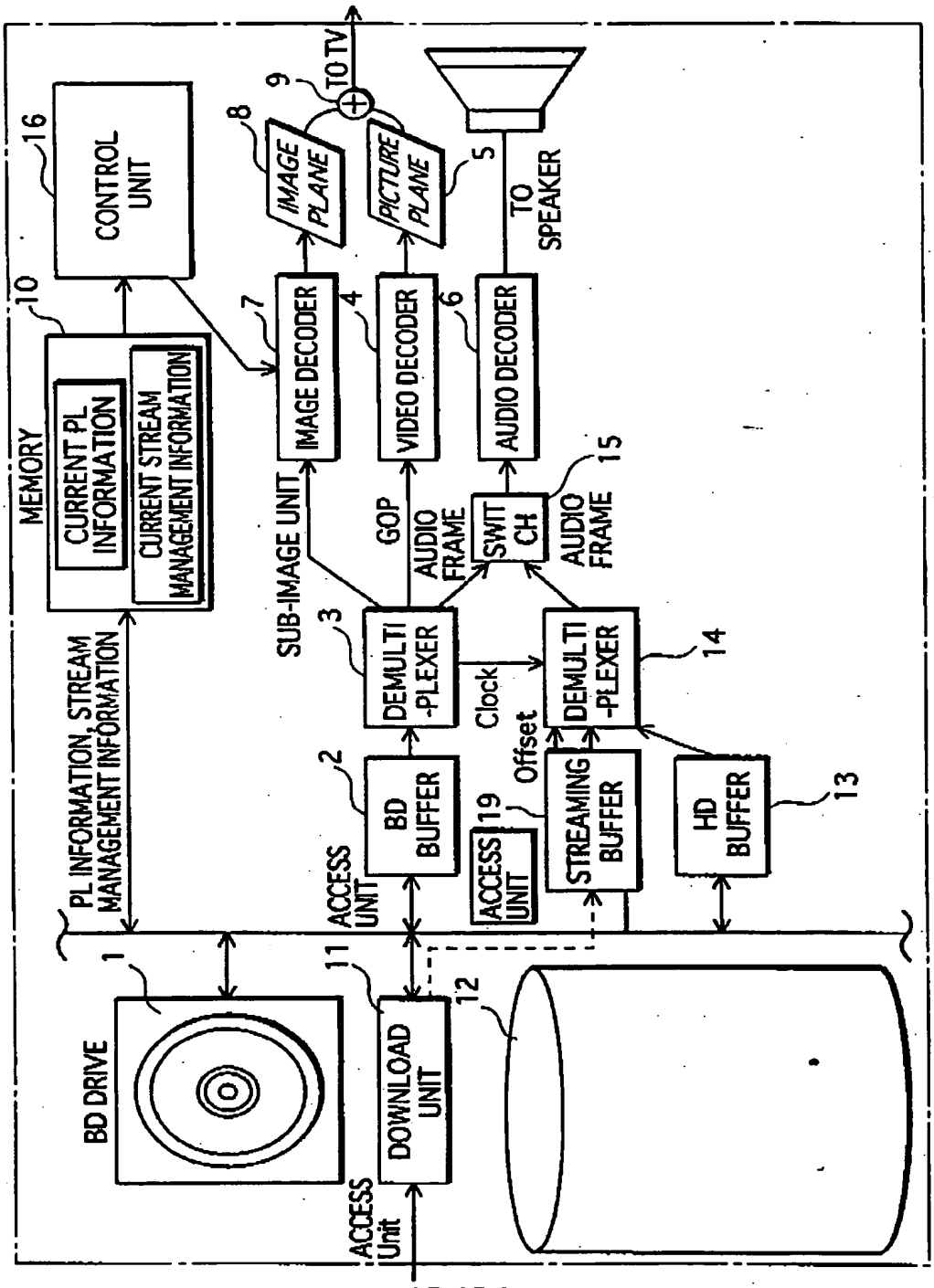

CONTROL UNIT
16
TO TV
9
8
IMAGE PLANE
PICTURE PLANE
5
TO SPEAKER
10
MEMORY
CURRENT PL INFORMATION
CURRENT STREAM MANAGEMENT INFORMATION
7
IMAGE DECODER
4
VIDEO DECODER
6
AUDIO DECODER
SUB-IMAGE UNIT
GOP
AUDIO FRAME
SWIT CH
15
AUDIO FRAME
3
DEMULTI -PLEXER
Clock
DEMULTI -PLEXER
14
PL INFORMATION, STREAM MANAGEMENT INFORMATION
2
BD BUFFER
Offset
19
ACCESS UNIT
STREAMING BUFFER
HD BUFFER
13
ACCESS UNIT
11
1
12
BD DRIVE
DOWNLOAD UNIT
ACCESS Unit

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FIG.43

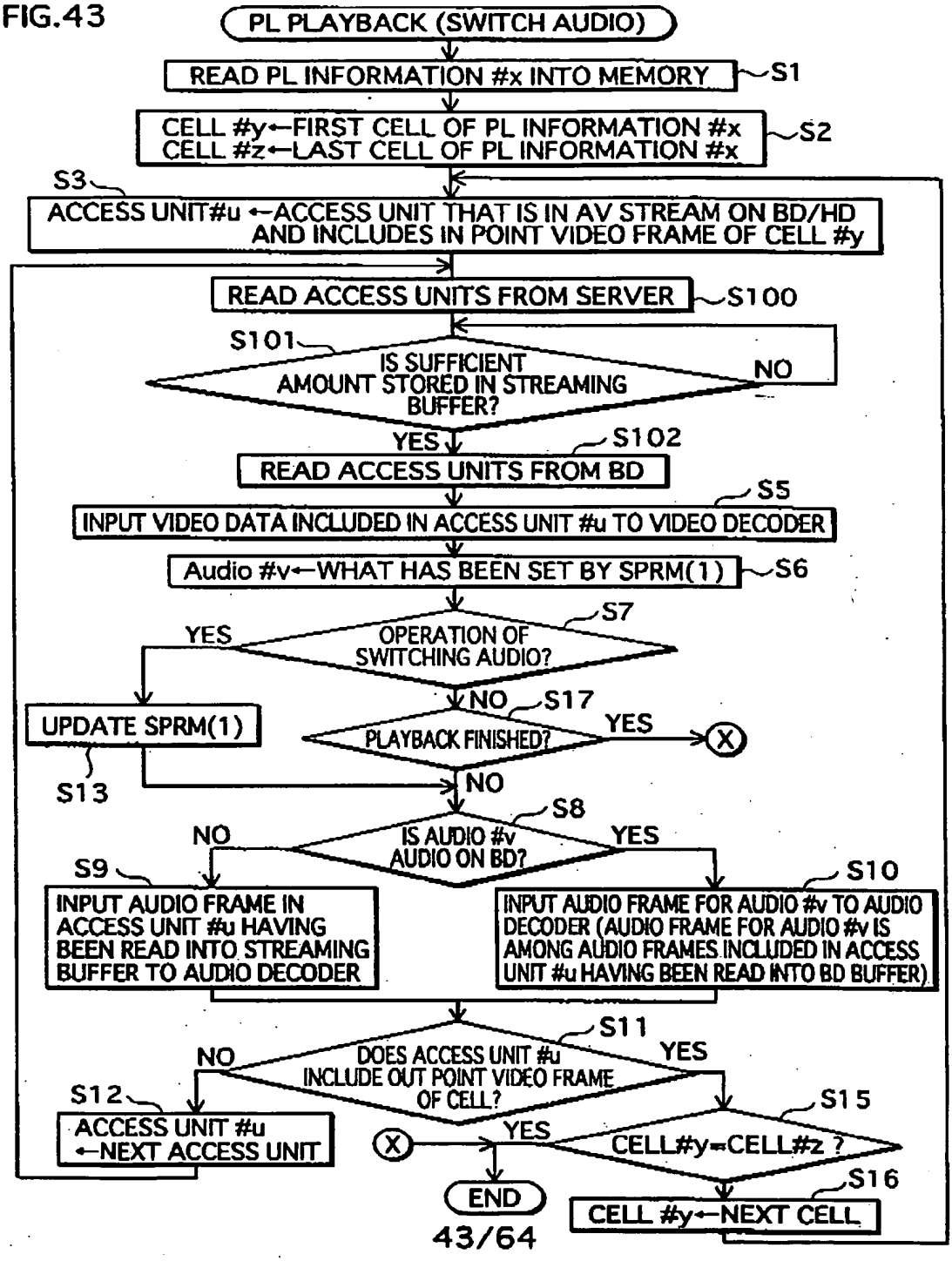

FIG.44

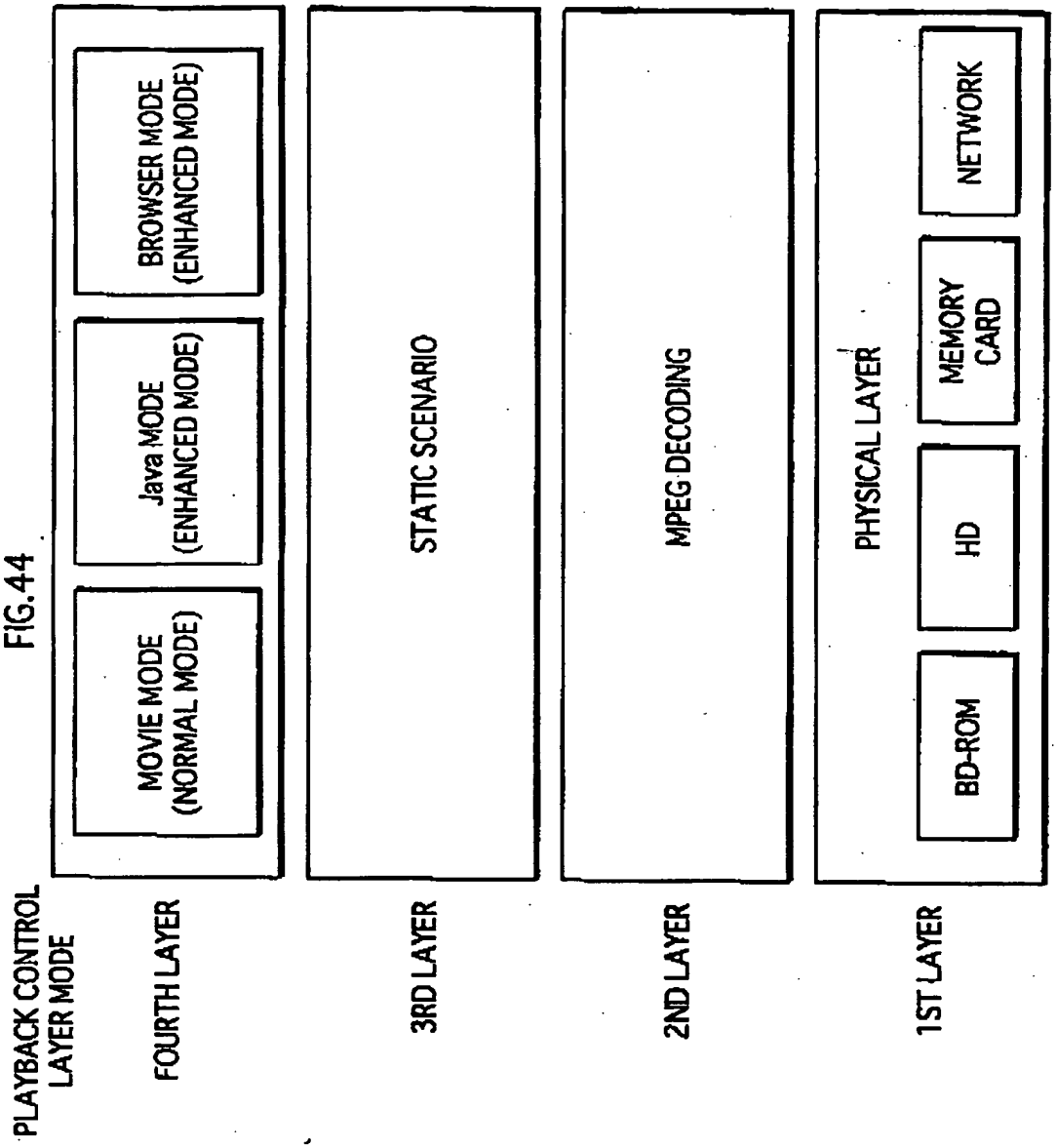
PLAYBACK CONTROL LAYER MODE
FOURTH LAYER
MOVIE MODE (NORMAL MODE)
Java MODE (ENHANCED MODE)
BROWSER MODE (ENHANCED MODE)
3RD LAYER
STATIC SCENARIO
2ND LAYER
MPEG DECODING
1ST LAYER
PHYSICAL LAYER
BD-ROM
HD
MEMORY CARD
NETWORK

FIG.45A

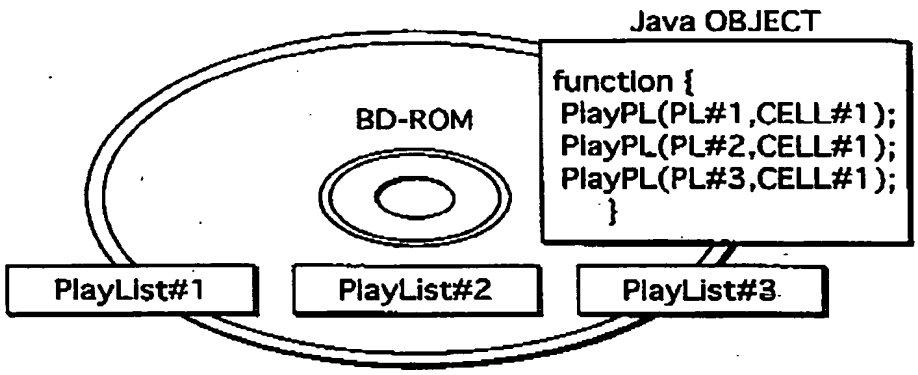

FIG.45B

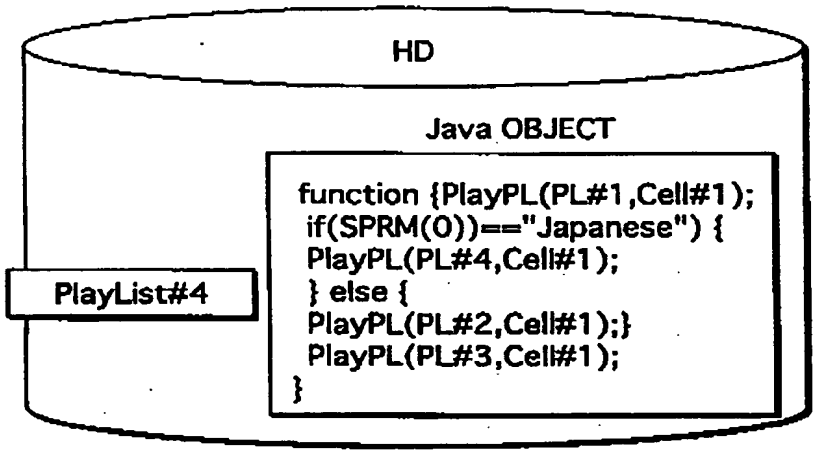

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FIG.46A

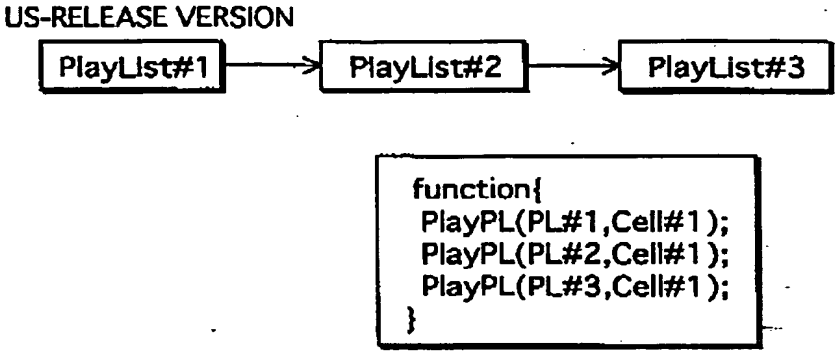


FIG.46B

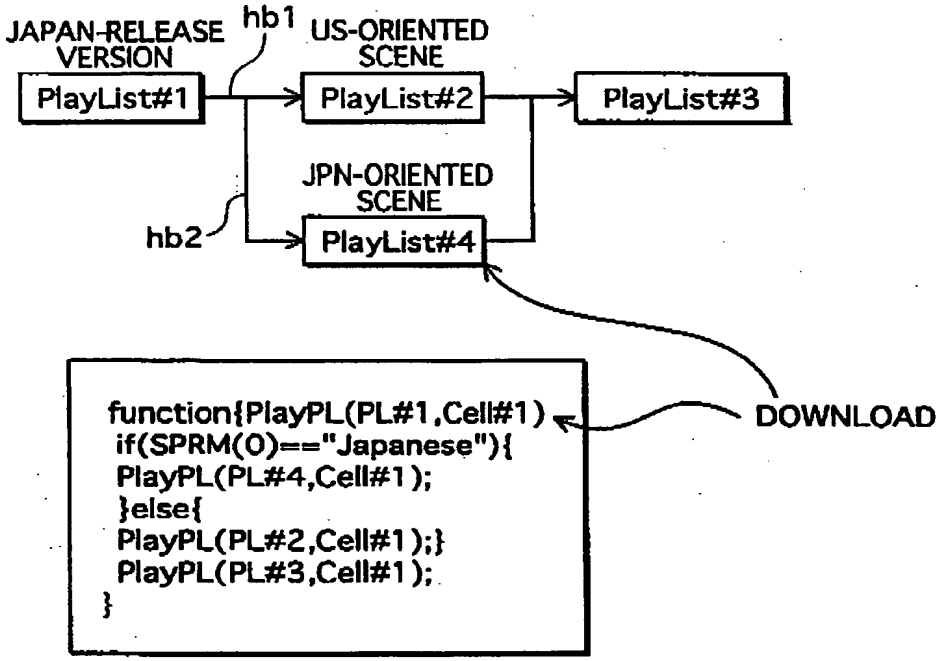


FIG.47

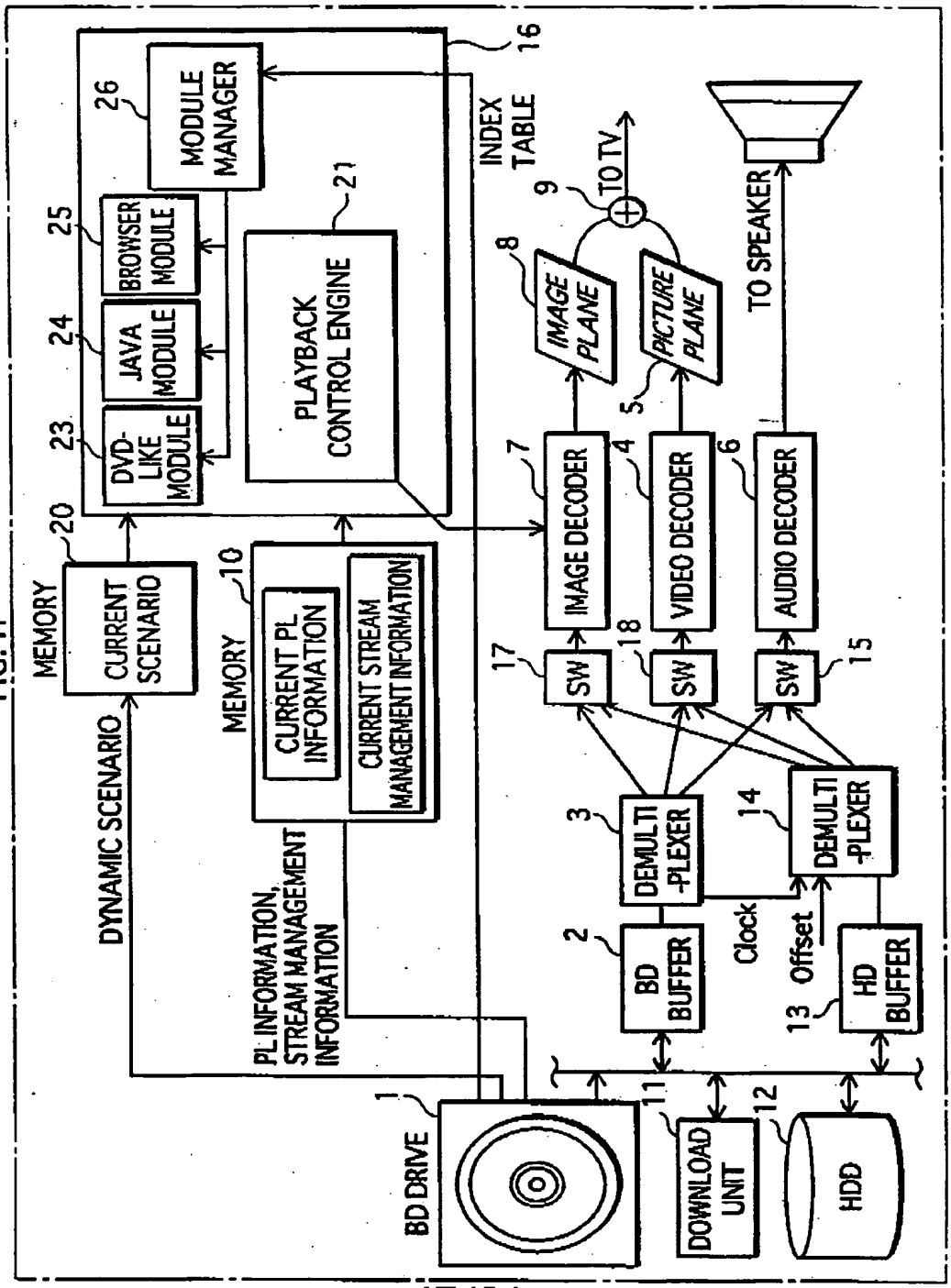

INDEX TABLE
16
MODULE MANAGER
26
BROWSER MODULE
25
JAVA MODULE
24
DVD-LIKE MODULE
23
PLAYBACK CONTROL ENGINE
21
MEMORY
20
CURRENT SCENARIO
DYNAMIC SCENARIO
MEMORY
10
CURRENT PL INFORMATION
CURRENT STREAM MANAGEMENT INFORMATION
PL INFORMATION, STREAM MANAGEMENT INFORMATION
IMAGE DECODER
7
VIDEO DECODER
4
AUDIO DECODER
6
IMAGE PLANE
8
PICTURE PLANE
5
TO TV
9
TO SPEAKER
SW
17
SW
18
SW
15
DEMULTI-PLEXER
3
DEMULTI-PLEXER
14
BD BUFFER
2
HD BUFFER
13
Clock
Offset
BD DRIVE
1
DOWNLOAD UNIT
11
HDD
12

FIG.48A

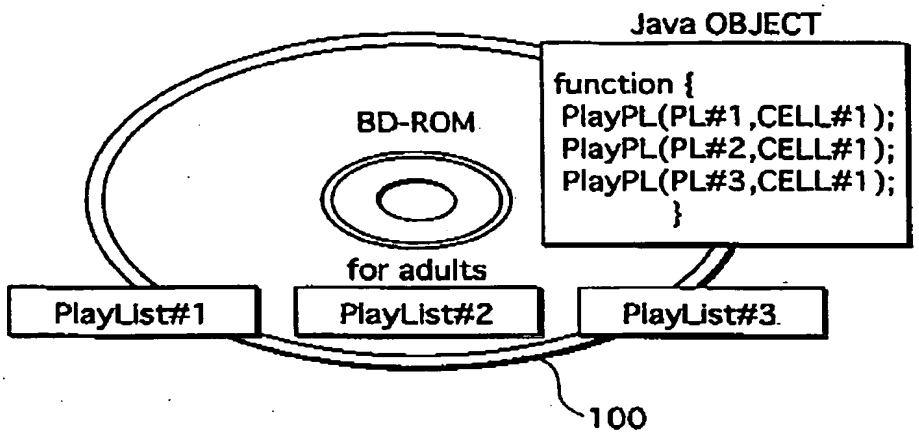
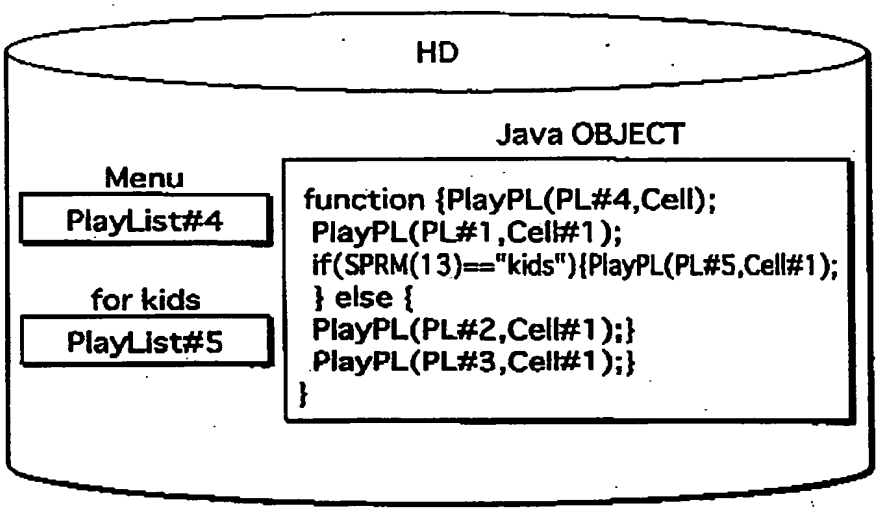


FIG.48B



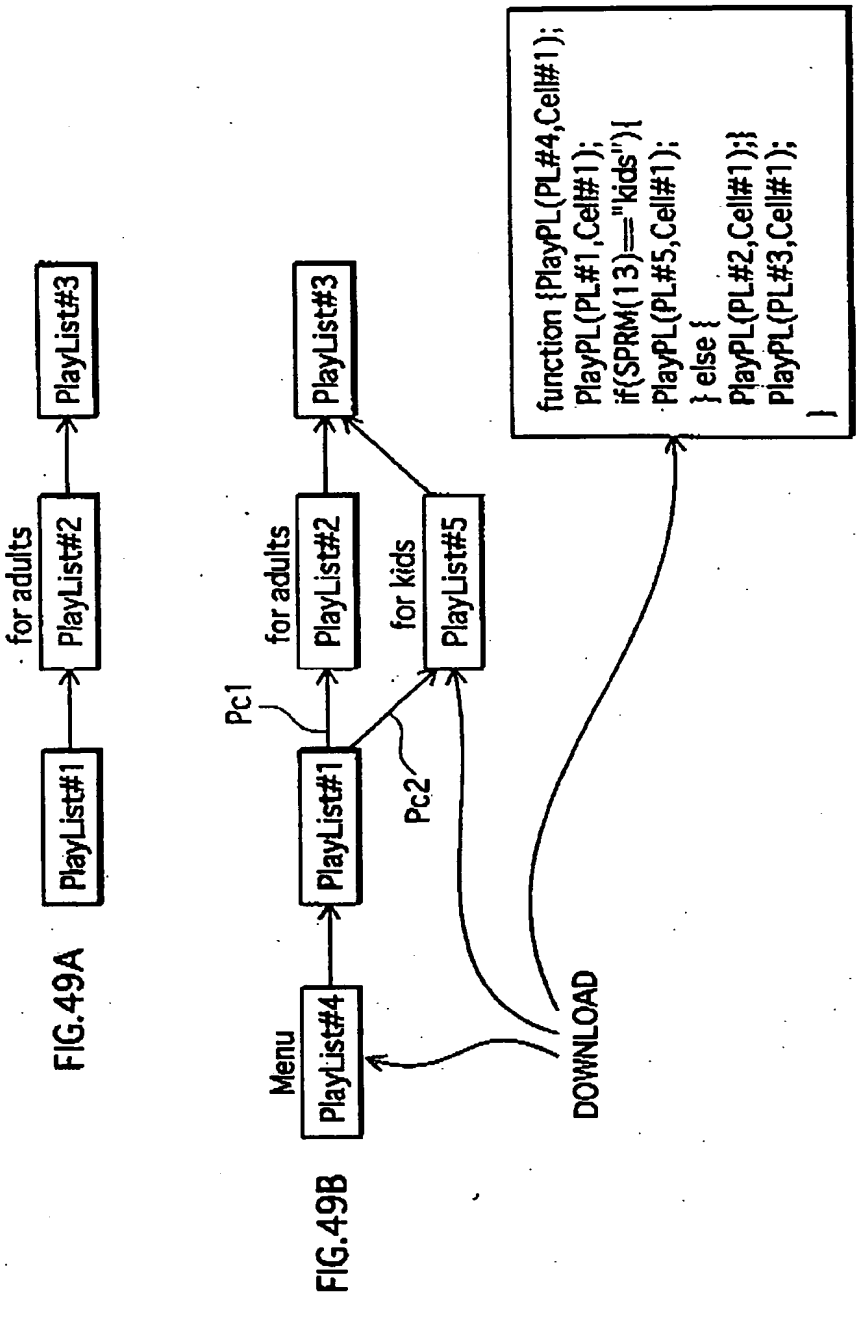


FIG.49A

FIG.49B

FIG.50A

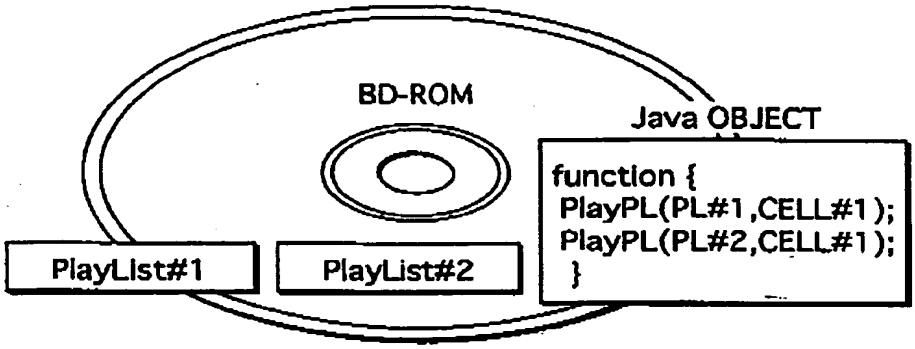
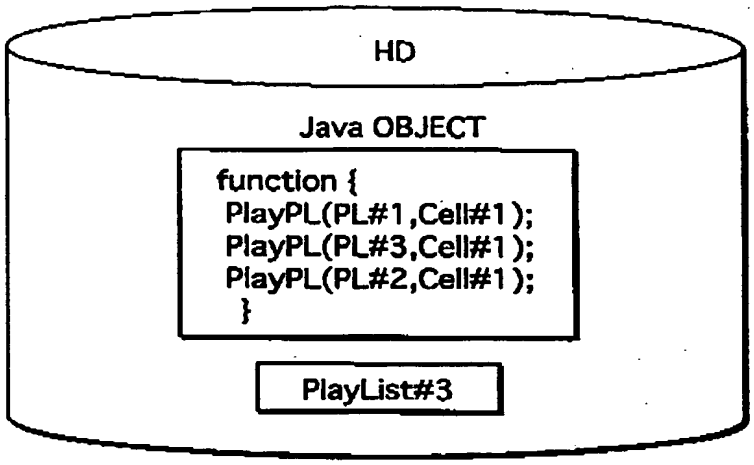


FIG.50B



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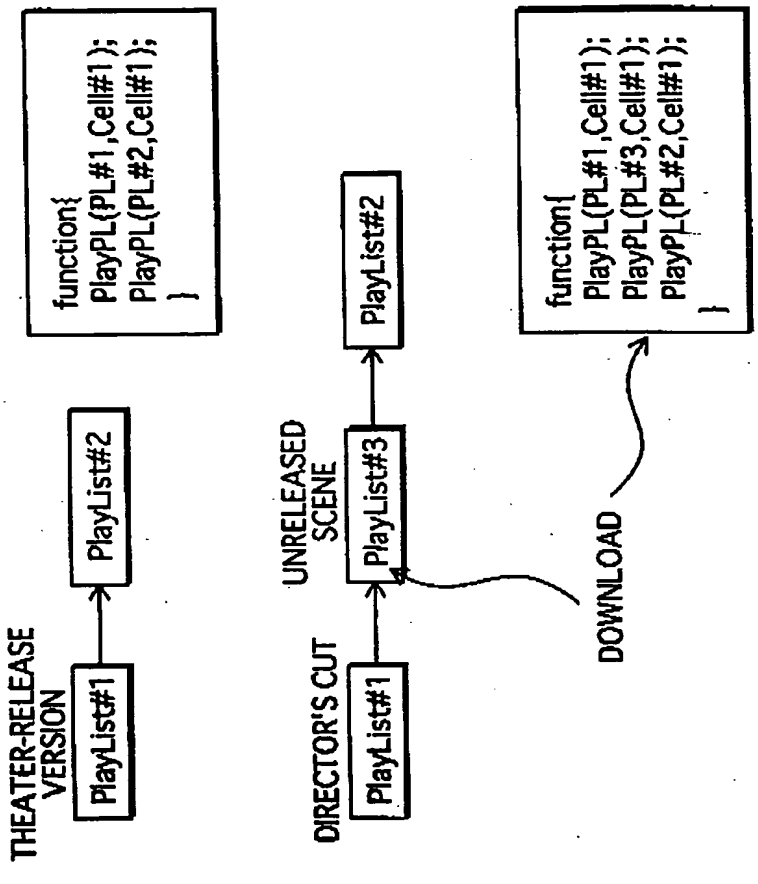


FIG.51A

FIG.51B

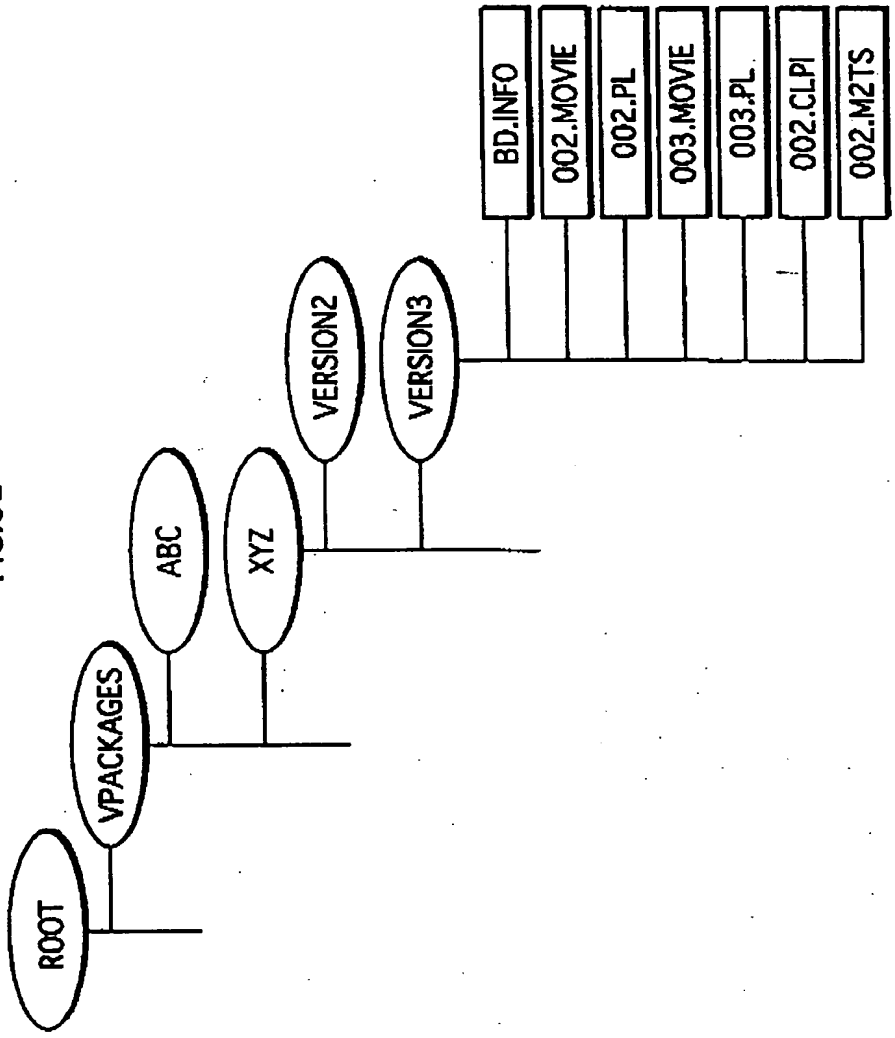

ROOT
VPACKAGES
ABC
XYZ
VERSION2
VERSION3
BD.INFO
002.MOVIE
002.PL
003.MOVIE
003.PL
002.CLPI
002.M2TS

FIG.52

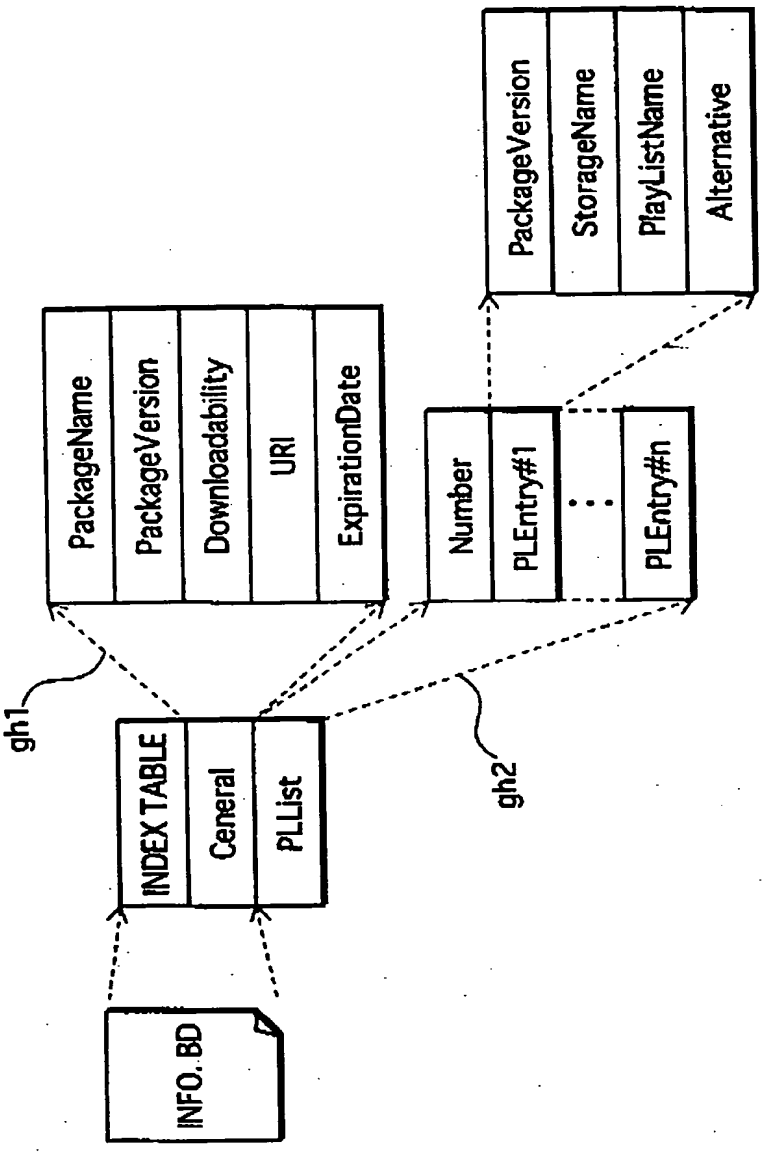

INFO.BD
INDEX TABLE
General
PLList
gh1
gh2
PackageName
PackageVersion
Downloadability
URI
ExpirationDate
Number
PLEntry#1
PLEntry#n
PackageVersion
StorageName
PlayListName
Alternative

FIG.53

FIG.54

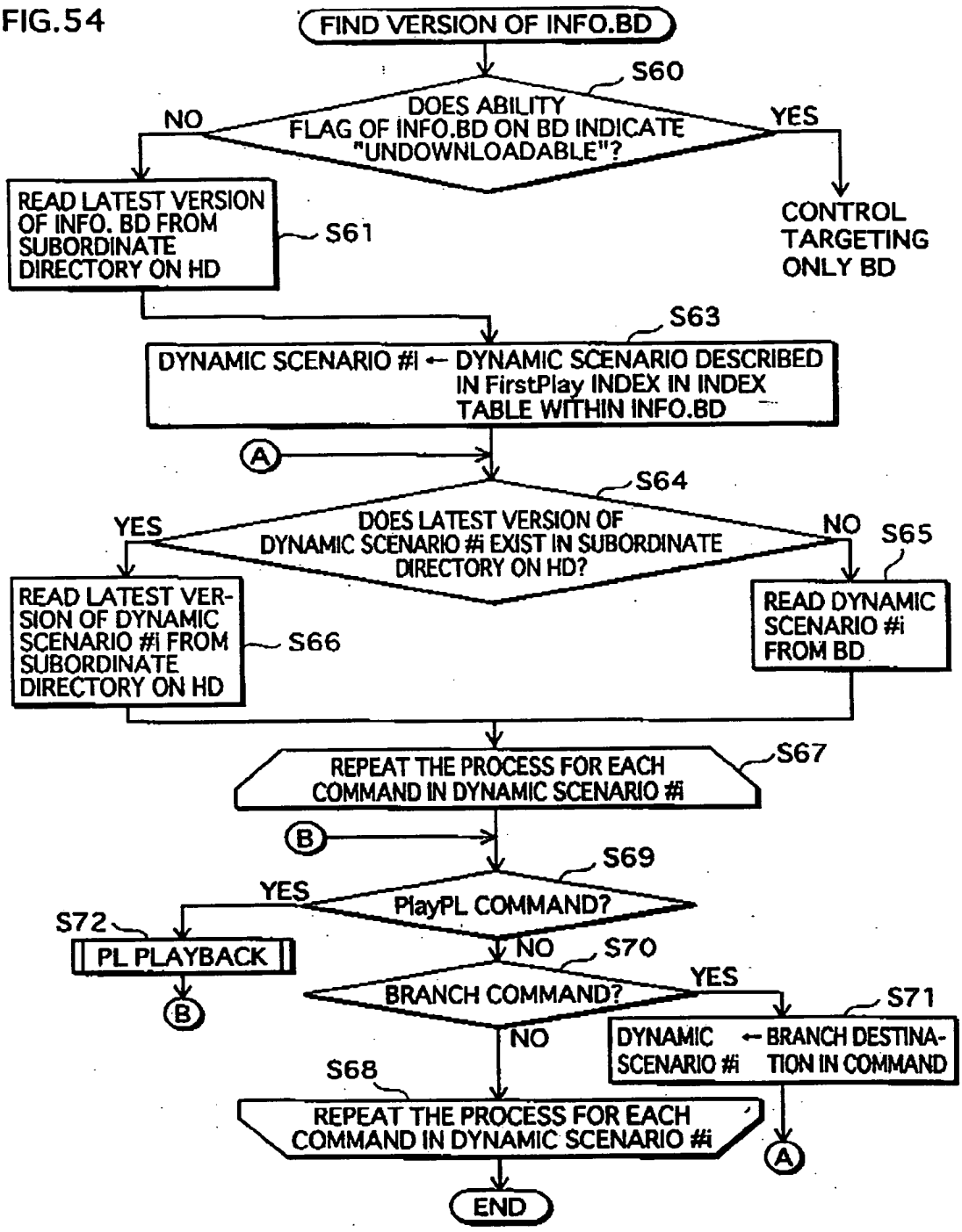

FIND VERSION OF INFO.BD
S60
DOES ABILITY FLAG OF INFO.BD ON BD INDICATE "UNDOWNLOADABLE"?
NO
YES
READ LATEST VERSION OF INFO. BD FROM SUBORDINATE DIRECTORY ON HD
S61
CONTROL TARGETING ONLY BD
S63
DYNAMIC SCENARIO #i ← DYNAMIC SCENARIO DESCRIBED IN FirstPlay INDEX IN INDEX TABLE WITHIN INFO.BD
A
S64
DOES LATEST VERSION OF DYNAMIC SCENARIO #i EXIST IN SUBORDINATE DIRECTORY ON HD?
YES
NO
S65
READ LATEST VERSION OF DYNAMIC SCENARIO #i FROM SUBORDINATE DIRECTORY ON HD
S66
READ DYNAMIC SCENARIO #i FROM BD
S67
REPEAT THE PROCESS FOR EACH COMMAND IN DYNAMIC SCENARIO #i
B
S69
PlayPL COMMAND?
YES
S72
PL PLAYBACK
B
NO
S70
BRANCH COMMAND?
YES
S71
DYNAMIC SCENARIO #i ← BRANCH DESTINATION IN COMMAND
NO
S68
REPEAT THE PROCESS FOR EACH COMMAND IN DYNAMIC SCENARIO #i
A
END

FIG.55A

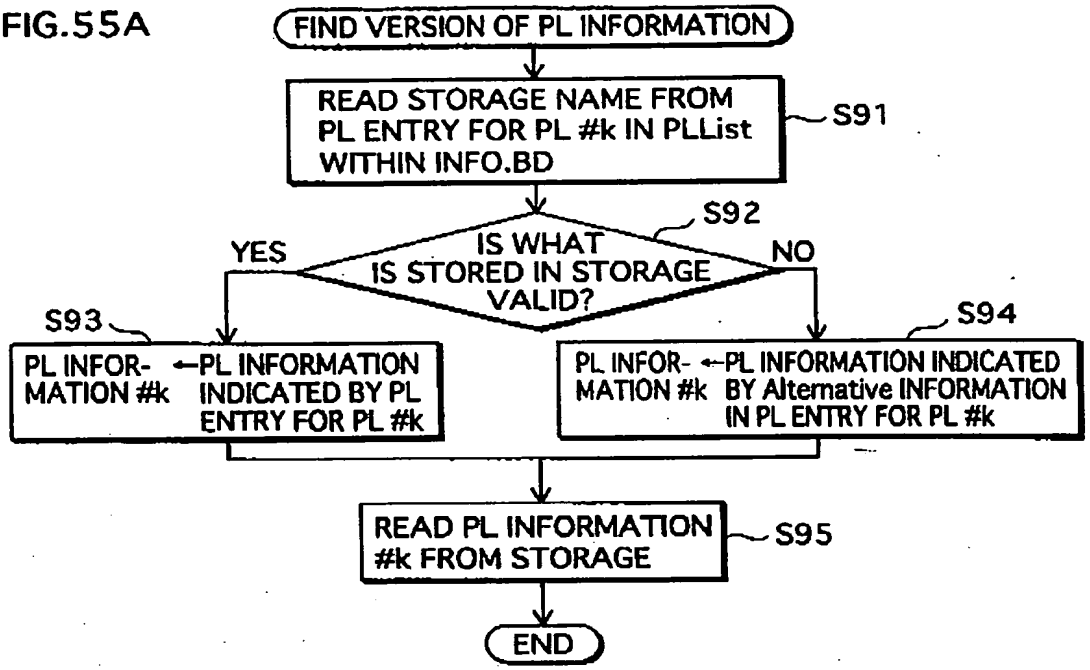


FIG.55B

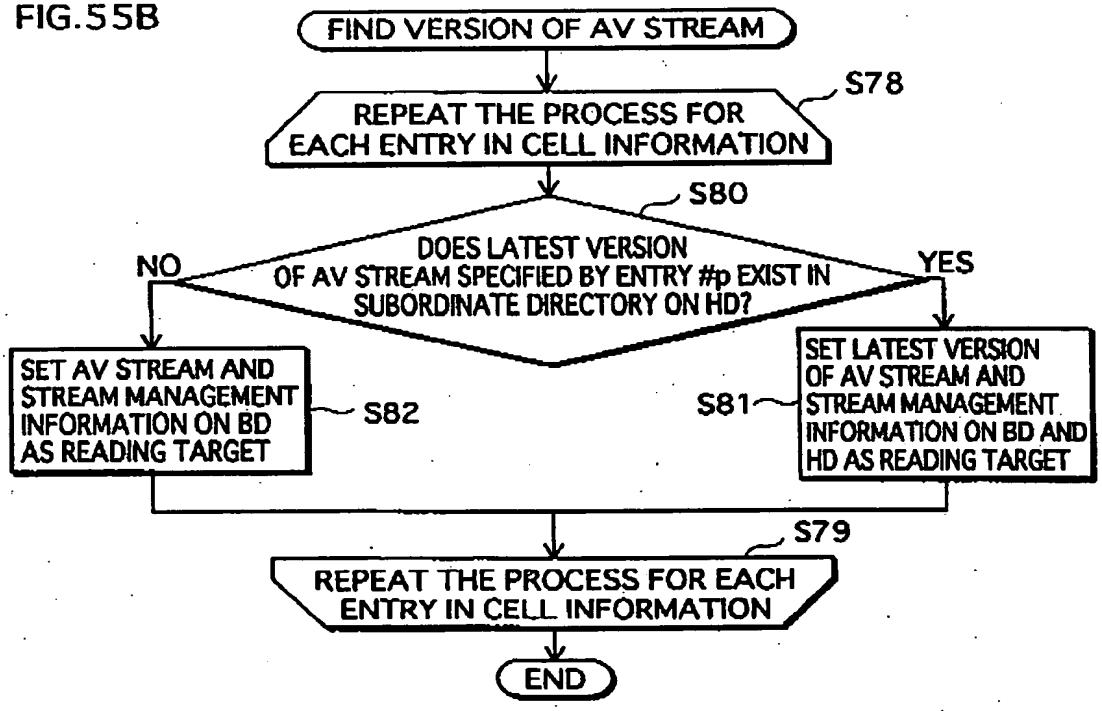
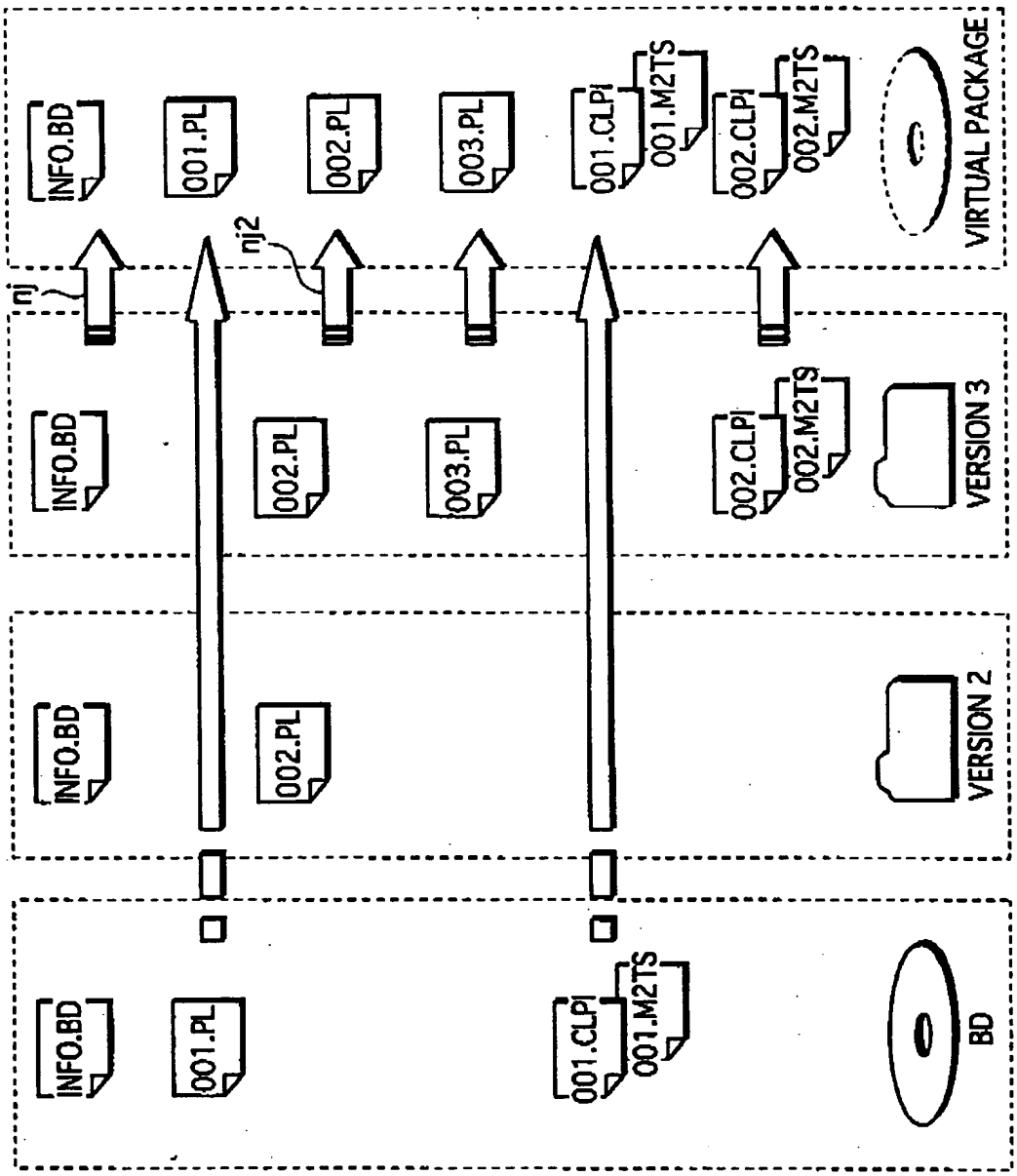


FIG.56


INFO.BD
001.PL
002.PL
003.PL
001.CLPI
001.M2TS
002.CLPI
002.M2TS
VIRTUAL PACKAGE
nj
nj2
INFO.BD
002.PL
003.PL
002.CLPI
002.M2TS
VERSION 3
INFO.BD
002.PL
VERSION 2
INFO.BD
001.PL
001.CLPI
001.M2TS
BD

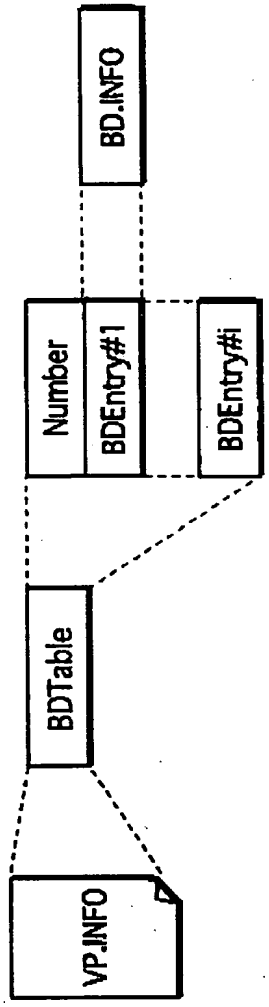
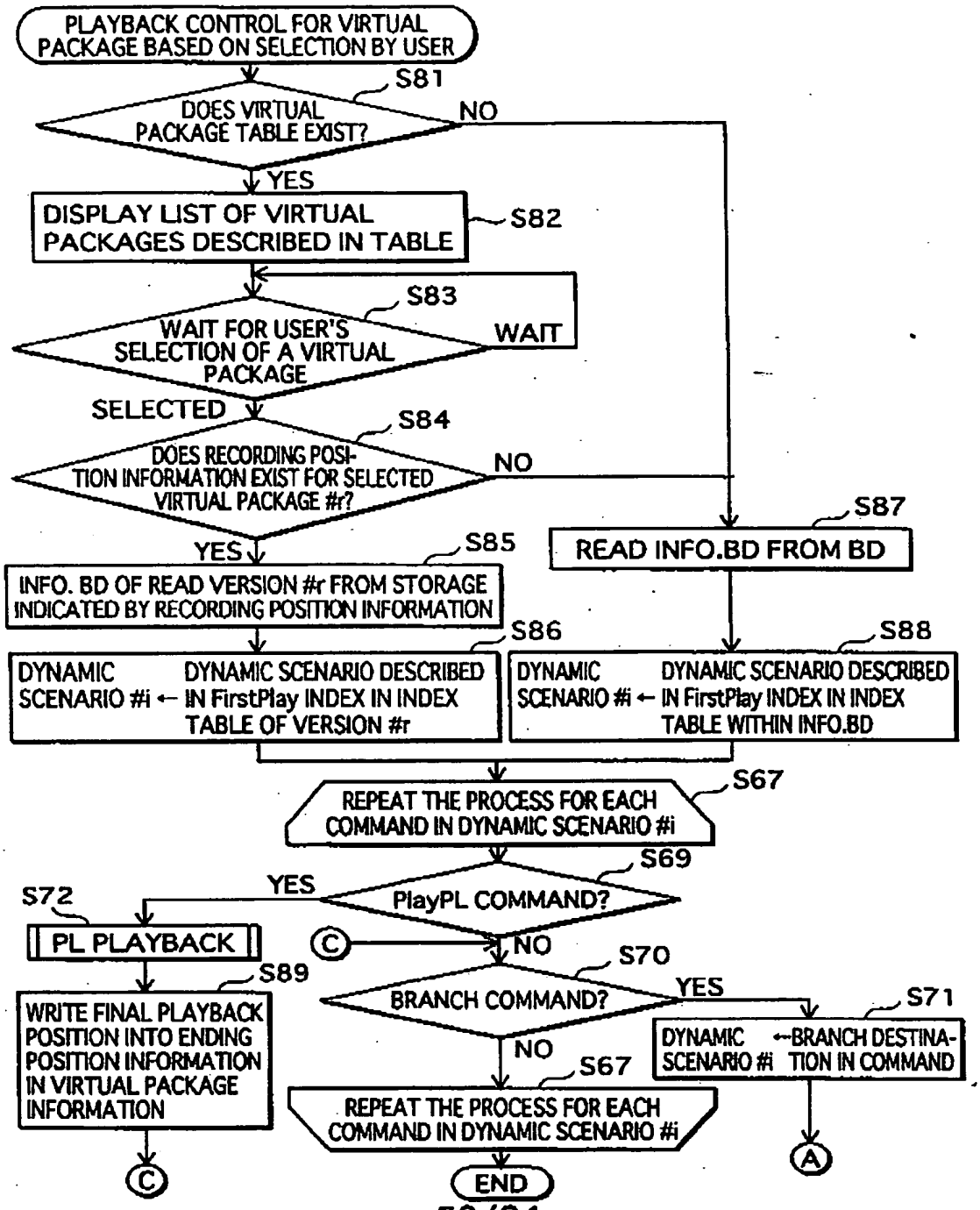


FIG.57

FIG.58

PACKAGE NAME	RECORDING POSITION INFORMATION	ENDING POSITION INFORMATION
ABC	¥ABC	PL#2/Cell#1/00:03:24:00
XYZ	.....	PL#1/Cell#1/00:13:05:10
WWW	Memory:¥WWW	.....
JKF	Server:¥JKF	PL#4/Cell#2/00:01:22:00

FIG.59


PLAYBACK CONTROL FOR VIRTUAL PACKAGE BASED ON SELECTION BY USER
S81
DOES VIRTUAL PACKAGE TABLE EXIST?
NO
YES
DISPLAY LIST OF VIRTUAL PACKAGES DESCRIBED IN TABLE
S82
S83
WAIT FOR USER'S SELECTION OF A VIRTUAL PACKAGE
WAIT
SELECTED
S84
DOES RECORDING POSITION INFORMATION EXIST FOR SELECTED VIRTUAL PACKAGE #r?
NO
YES
S85
INFO. BD OF READ VERSION #r FROM STORAGE INDICATED BY RECORDING POSITION INFORMATION
S87
READ INFO.BD FROM BD
S86
DYNAMIC SCENARIO #i ← DYNAMIC SCENARIO DESCRIBED IN FirstPlay INDEX IN INDEX TABLE OF VERSION #r
S88
DYNAMIC SCENARIO #i ← DYNAMIC SCENARIO DESCRIBED IN FirstPlay INDEX IN INDEX TABLE WITHIN INFO.BD
S67
REPEAT THE PROCESS FOR EACH COMMAND IN DYNAMIC SCENARIO #i
S69
PlayPL COMMAND?
YES
S72
PL PLAYBACK
C
NO
S70
BRANCH COMMAND?
YES
S71
DYNAMIC SCENARIO #i ← BRANCH DESTINATION IN COMMAND
S89
WRITE FINAL PLAYBACK POSITION INTO ENDING POSITION INFORMATION IN VIRTUAL PACKAGE INFORMATION
NO
S67
REPEAT THE PROCESS FOR EACH COMMAND IN DYNAMIC SCENARIO #i
C
A
END

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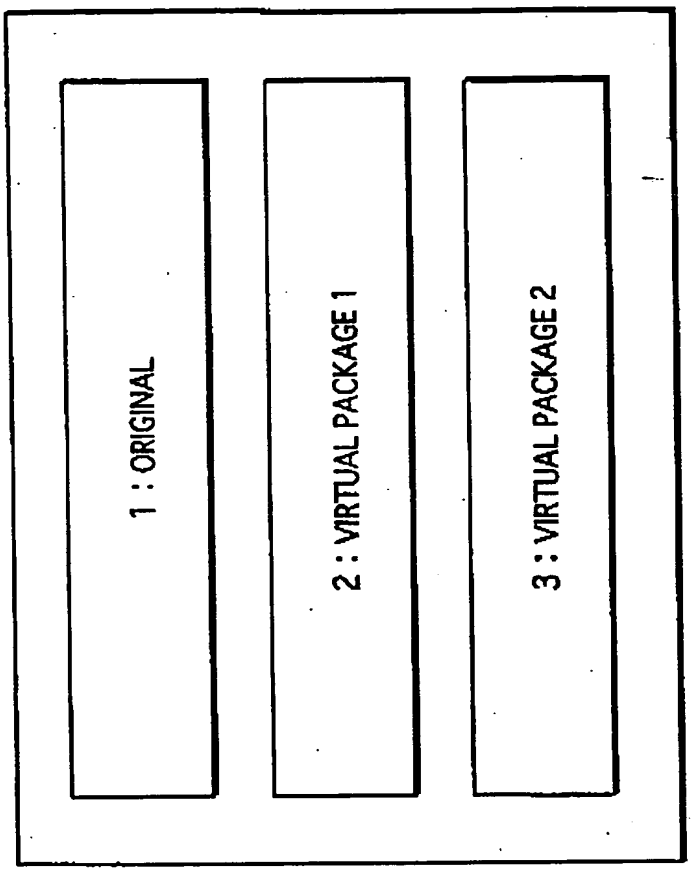


FIG.60

FIG.61

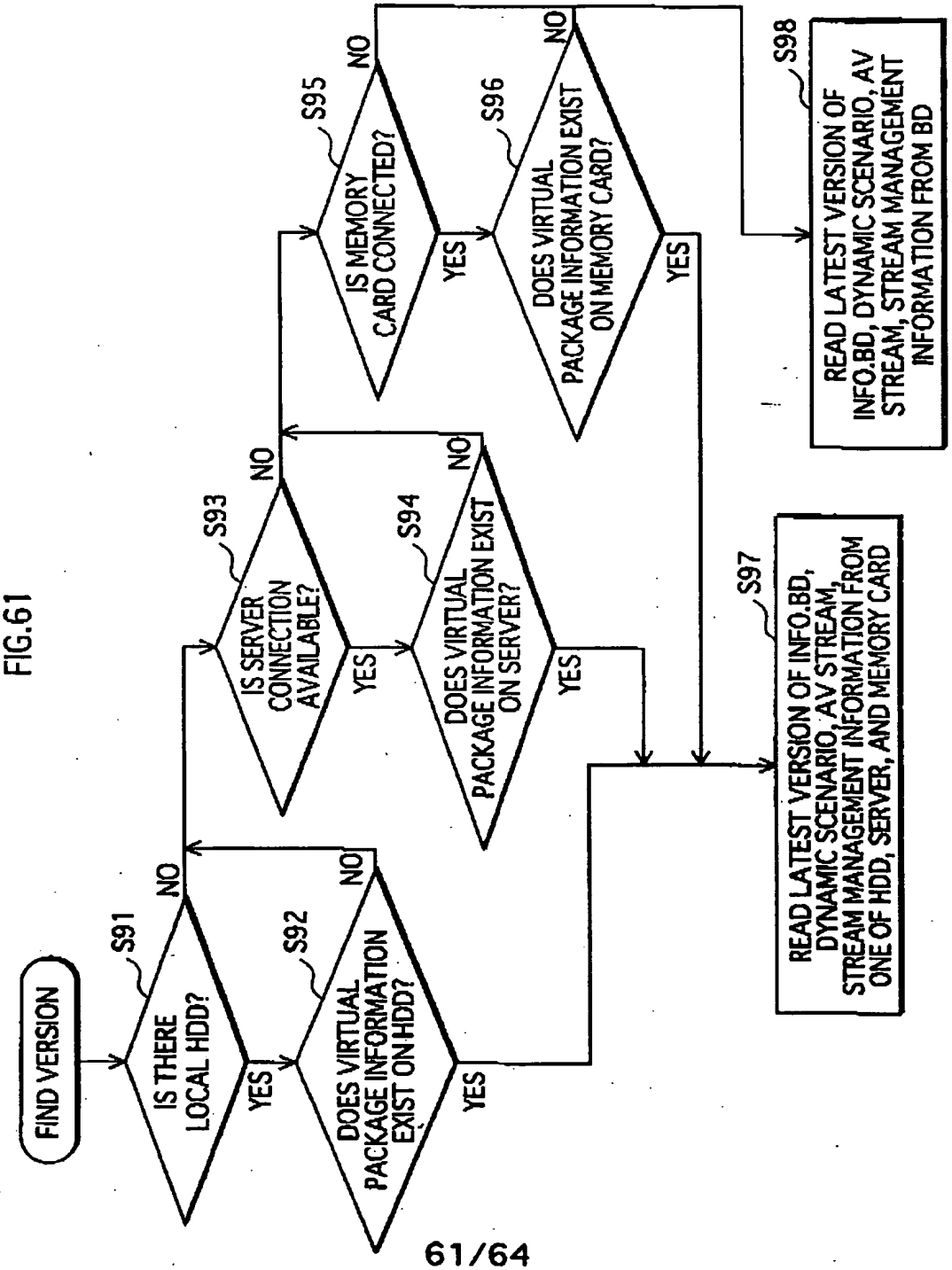
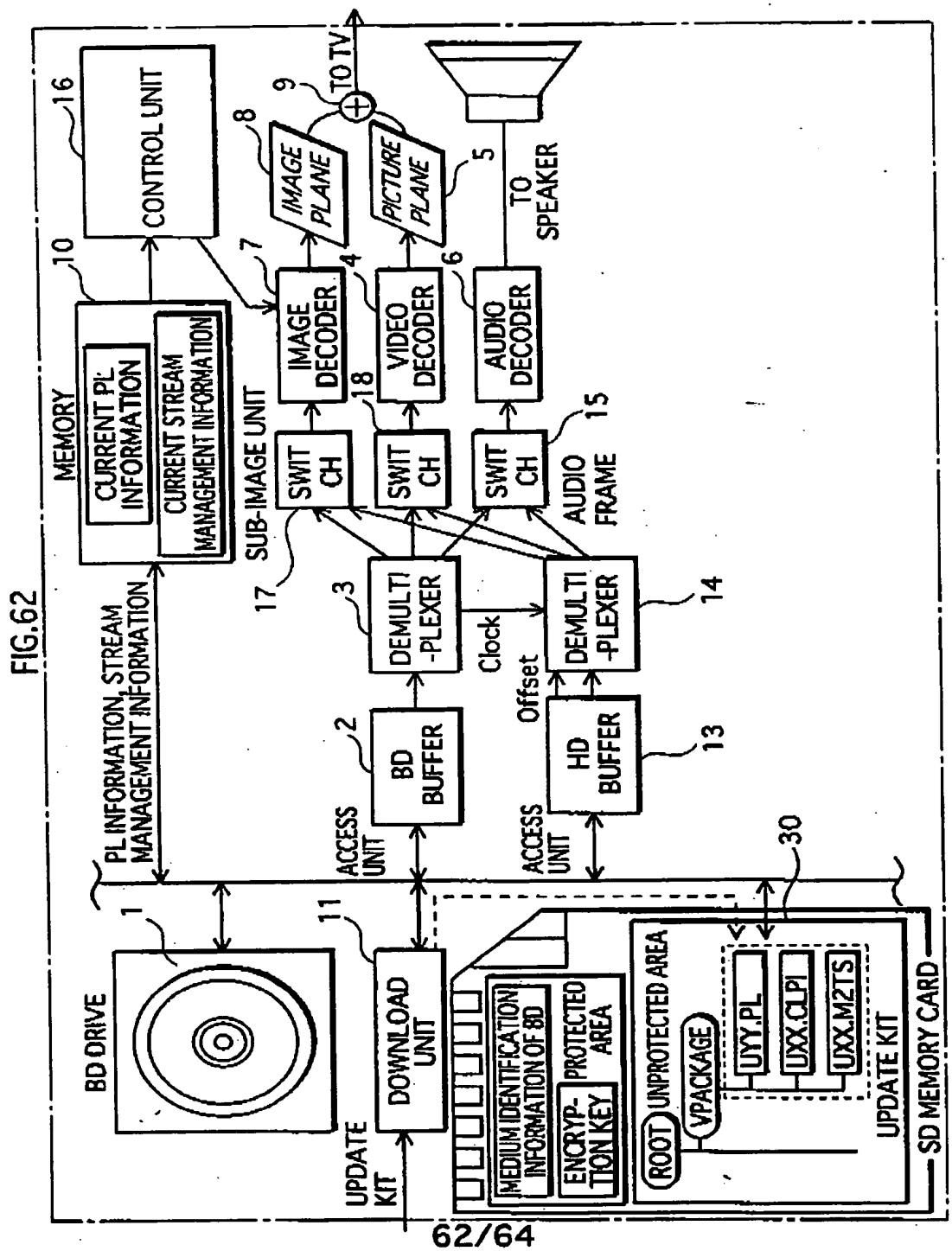

FIND VERSION
S91
IS THERE LOCAL HDD?
NO
YES
S92
DOES VIRTUAL PACKAGE INFORMATION EXIST ON HDD?
NO
YES
S93
IS SERVER CONNECTION AVAILABLE?
NO
YES
S94
DOES VIRTUAL PACKAGE INFORMATION EXIST ON SERVER?
NO
YES
S95
IS MEMORY CARD CONNECTED?
NO
YES
S96
DOES VIRTUAL PACKAGE INFORMATION EXIST ON MEMORY CARD?
NO
YES
S97
READ LATEST VERSION OF INFO.BD, DYNAMIC SCENARIO, AV STREAM, STREAM MANAGEMENT INFORMATION FROM ONE OF HDD, SERVER, AND MEMORY CARD
S98
READ LATEST VERSION OF INFO.BD, DYNAMIC SCENARIO, AV STREAM, STREAM MANAGEMENT INFORMATION FROM BD

FIG.62


CONTROL UNIT
16
TO TV
9
8
IMAGE PLANE
PICTURE PLANE
5
TO SPEAKER
10
MEMORY
CURRENT PL INFORMATION
CURRENT STREAM MANAGEMENT INFORMATION
7
IMAGE DECODER
4
VIDEO DECODER
6
AUDIO DECODER
SUB-IMAGE UNIT
18
SWIT CH
SWIT CH
SWIT CH
15
AUDIO FRAME
17
3
DEMULTI -PLEXER
Clock
DEMULTI -PLEXER
14
PL INFORMATION, STREAM MANAGEMENT INFORMATION
2
BD BUFFER
Offset
HD BUFFER
13
ACCESS UNIT
ACCESS UNIT
30
1
11
BD DRIVE
DOWNLOAD UNIT
MEDIUM IDENTIFICATION INFORMATION OF BD
ENCRYP-TION KEY
PROTECTED AREA
UNPROTECTED AREA
ROOT
VPACKAGE
UYY.PL
UXX.CLPI
UXX.M2TS
UPDATE KIT
SD MEMORY CARD
UPDATE KIT

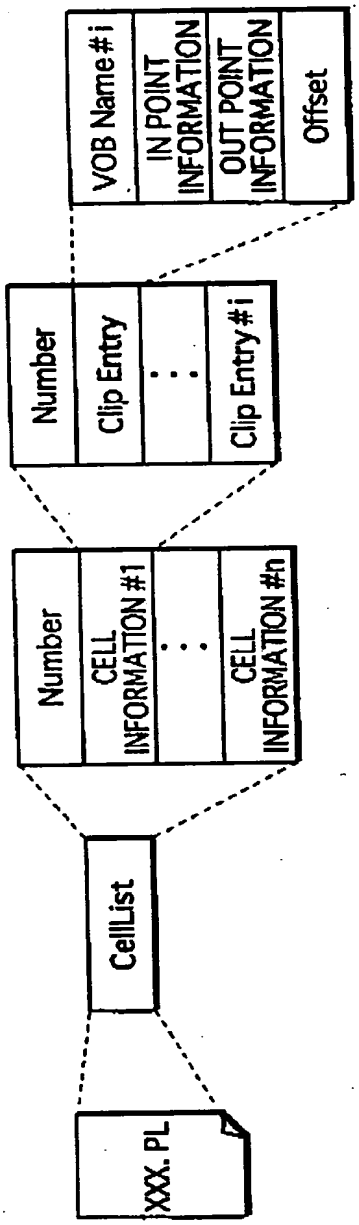

VOB Name #i
IN POINT INFORMATION
OUT POINT INFORMATION
Offset
Number
Clip Entry
Clip Entry #i
Number
CELL INFORMATION #1
CELL INFORMATION #n
CellList
XXX. PL

FIG.63

10/528969

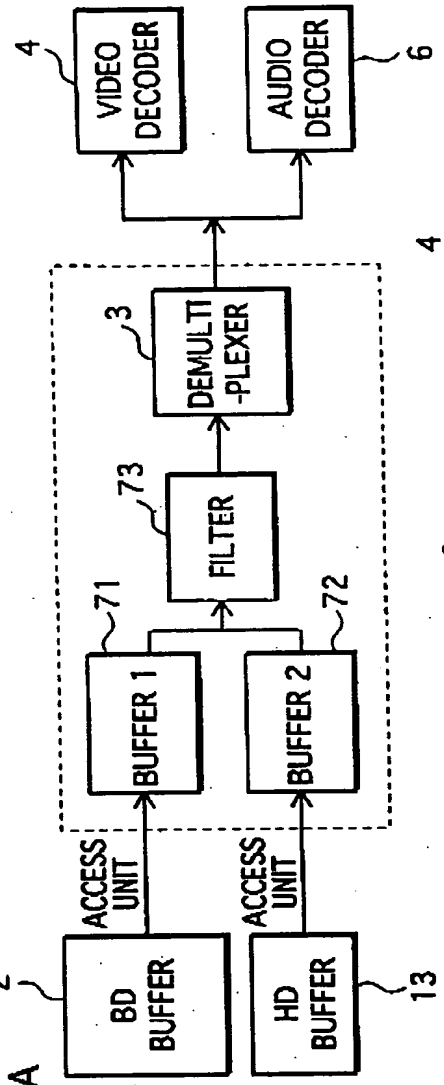


FIG.64A

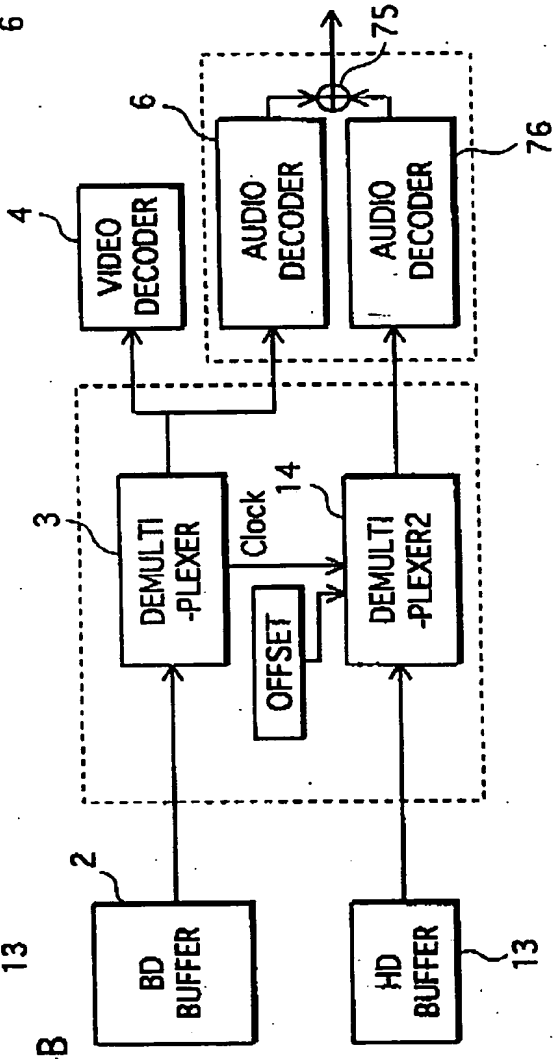


FIG.64B